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Central University of Kentucky Record

Series I. April, 1907 *Vol. III. No. 1*

THE LIBRARY OF THE
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UNIVERSITY OF ILLINOIS

Catalogue Number

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Published Quarterly by Central University of Kentucky
Danville, Kentucky

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The Champlin Press
Columbus, Ohio

CATALOGUE

OF

CENTRAL UNIVERSITY

OF KENTUCKY

1906-1907

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HISTORICAL SKETCH.

Central University of Kentucky, as at present constituted, dates its incorporation from 1901, and is, therefore, the youngest of Kentucky's institutions of higher learning, but its constituent parts, the Centre College and the Central University, have an honorable history, reaching many years into the past.

The Centre College was chartered by the Legislature of Kentucky in the year 1819. Its first president, the Rev. Jeremiah Chamberlain, D. D., was inducted into office in 1823. According to an arrangement with the Synod of the Presbyterian Church in Kentucky, the Board of Trustees procured, in the year 1824, an act of the Legislature modifying the charter of the college so as to secure to the Synod, on the payment of $20,000 into the treasury of the institution, the right to appoint the Board of Trustees. The condition thus imposed upon the Synod was fulfilled in 1830, and since that time all the members of the board have been appointed by the Synod as their terms of office expired, one-fourth of the board at present being appointed every year.

Dr. Chamberlain resigned the presidency in 1826, and the Rev. Gideon Blackburn, D. D., succeeded him in 1828; in the interval the office had been temporarily filled by the Rev. David C. Proctor. On the resignation of Dr. Blackburn in 1830, the Rev. John C. Young, D. D., was elected president. Dr. Young died in office June 23, 1857, and on the 6th of August following, the Rev. Lewis W. Green, D. D., was elected his successor, and entered upon his duties January 1, 1858. Dr. Green

died in office, May 26, 1863, and on the 16th of October following, the Rev. Wm. D. Breckinridge, D. D., was elected president. On the 29th of the same month he accepted the position, and entered at once upon its duties. These he continued to discharge until his resignation, October 16, 1868. Professor Ormond Beatty, LL. D., being at the time vice-president, was requested to act as president until a successor to Dr. Breckinridge should be chosen. He continued to do so until the Board of Trustees elected him president September 1, 1870. Dr. Beatty tendered his resignation to the board November 30, 1886, and it was accepted, "to take effect upon the qualification of his successor." The Rev. William C. Young, D. D., son of the distinguished former president, Dr. John C. Young, was elected president June 18, 1888, and Dr. Beatty was formally released from his official duties. Dr. Young entered upon his office September 5, 1888; his death occurred September 16, 1896. June 7, 1898, after an interval during which the duties of president were discharged by Prof. John C. Fales, LL. D., Dean of the College, the Rev. William Charles Roberts, D. D., LL. D., was unanimously elected president. He took up the duties of the office immediately and remained president of the Centre College and of the new Central University until his death, which occurred November 27, 1903.

On April 15th, 1904, the Rev. Frederick W. Hinitt, Ph. D., D. D., was unanimously chosen to fill the vacant presidency.

The Centre College is one of the oldest institutions of higher education in Kentucky, or in the south or the west, having graduated its first class as early as 1824. It has prosecuted its work successfully, and without interruption, from that day to the present. Not a year

has passed in which it has not sent out graduates, until the entire body of its alumni numbers at this time nearly 1,600. In addition to these, 2,600 students have taken a partial course, but have not received diplomas. Among the alumni are 360 lawyers, about 240 ministers, and more than 100 physicians, besides a great number of teachers; the other graduates have entered various business callings. An unusual proportion of these men have distinguished themselves in their respective professions and occupations, and have attained to the highest positions of honor and trust throughout the south and west, where most of them have had their homes.

The Centre College has educated twenty-five college presidents, fifty college professors, twenty-seven representatives in Congress, five United States Senators, nine Governors of States, two Vice Presidents of the United States, one Justice of the Supreme Court of the United States, thirty-nine Circuit Judges (state or national), six moderators of the General Assembly of the Presbyterian Church, and fifty editors. No institution in Kentucky has sent out, year by year, larger classes of well-trained young men.

The other constituent part of the institution, known as the Central University, was organized under a charter granted by the Legislature of Kentucky March 3, 1873, providing for the establishment of an institution of the highest order, on the university plan, under the auspices of the Southern Synod of Kentucky. The College of Philosophy, Letters and Science, at Richmond, and the Hospital College of Medicine, at Louisville, were opened for students in September, 1874. The Louisville College of Dentistry was organized and opened at Louisville, January, 1888, and the College of Law, at Richmond, October, 1898.

The charter gave authority to the curators, "to establish, under the auspices of the University, six preparatory schools in various parts of the state, designed to prepare students to enter the University." Three of these schools were put in successful operation, viz., the Richmond Preparatory School, the Lees Collegiate Institute, Jackson, Ky., and the Hardin Collegiate Institute, Elizabethtown, Ky.

The charter also provided for the establishment of a Theological Department in connection with the University; and, on the recommendation of the Synod, a special endowment was raised, and the department was opened in September, 1891, under the direction of the Rev. T. D. Witherspoon, D. D., LL. D. At the end of two years the Synods of Kentucky and Missouri united in the movement to establish a Theological Seminary for the southwest at Louisville, and the endowment fund of the department was transferred to Louisville Presbyterian Theological Seminary, with which the Danville Theological Seminary was consolidated in 1901.

The government of the University was vested in a Chancellor, as chief executive officer, and a Board of Curators, elected at first by the Alumni Association, but afterward by the Synod of Kentucky. The Rev. Robert L. Breck, D. D., was the first chancellor, and the Rev. John W. Pratt, D. D., the first president of the faculty. In June, 1880, Doctors Breck and Pratt resigned, and the University was practically re-organized. The Rev. L. H. Blanton, D. D., was elected chancellor, and Rev. J. V. Logan, D. D., president of the faculty, and both continued in office until the consolidation of the institution with the Centre College.

The Central University was the youngest, by many years, of the Kentucky colleges, and was in competition

from the begining with the older and more richly endowed institutions. Great liberality and zeal were shown by its friends and patrons in its establishment and in its maintenance for twenty-seven years. Among the many generous donors to its funds may be mentioned S. P. Walters, A. J. Alexander, Orville Ford, Stuart Robinson, D. D., Hon. W. H. McBrayer, J. V. Logan, D. D., D. C. Collins, T. A. Bracken, D. D., and Col. Bennett H. Young.

The first class, consisting of nine members, was graduated from the Central University in 1877; and for twenty-four years it sent out classes varying from six to twenty-eight well-trained young men, the last three or four classes being the largest in the history of the institution. It sent forth in all about 300 graduates, besides many others who hold certificates of proficiency in separate departments of study. These young men are found in all the walks of life. The Central University gave to Kentucky her present Chief Executive, and many others who occupy positions of honor and trust. It gave to the church about forty ministers of the gospel, who are among its ablest and most useful pastors.

The College of Medicine graduated 900 Doctors of Medicine. The College of Dentistry graduated 406 Doctors of Dental Surgery, and the College of Law, 15 Bachelors of Law. During the twenty-seven years of its separate existence, over 8,000 students received their education, in whole or in part, in connection with the University's four colleges and three university schools. The aggregate matriculation in the last year before the consolidation was eleven hundred and sixty-four.

The two institutions described above were legally consolidated in August, 1901, under the corporate name of "Central University of Kentucky," the seat of which

was fixed at Danville, Boyle county. No better location could have been selected for a great institution of learning. Danville is an ideal college town, healthful, beautiful and free from most of the temptations to youth found in other places of its size. The campus embraces forty-three and one-third acres of blue-grass, covered with a large variety of fine trees. The buildings are substantial and commodious, and are connected by hundreds of yards of superb concrete walks and a macadamized carriage road. There are two spacious and comfortable dormitories, College Home and Breckinridge Hall, a library, a gymnasium, and all the equipment of a modern university.

As at present constituted, Central University is governed by a Board of Trustees, composed of twenty-four members, one-half appointed by each of the two Presbyterian Synods of Kentucky, North and South. It comprises the Centre College, as the classical, scientific and literary department; the College of Law, as the law department; the Hospital College of Medicine, in Louisville, as the medical department; and the Louisville College of Dentistry, as the dental department.

There are also two affiliated schools or Collegiate Institutes, located in Danville and Elizabethtown, which serve as fitting-schools for the University.

These elements constitute one of the most complete and efficient universities in the South.

Calendar 1906

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Calendar 1907

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Calendar 1908

JANUARY						
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Central University of Kentucky

: : : : : The University Corporation includes : : : : :

The Colleges : : :

The Centre College of Kentucky
Danville

The College of Law
Danville

The Hospital College of Medicine
Louisville

The Louisville College of Dentistry
Louisville

The University Schools : : :

The Centre College Academy
Danville

The Hardin Collegiate Institute
Elizabethtown

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GEORGE A. HENDON, M. D.,
Professor of Principles and Practice of Surgery and Surgical Pathology, 1826 Baxter Avenue.

E. DUFF BURNETT, M. D.,
Professor of Diseases of the Nervous System and Medical Jurisprudence.

JAMES VANCE, M. D.,
Professor of Bacteriology and Hygiene.

E. LEE HEFLIN, M. D.,
Professor of Genito-Urinary Surgery.

WALTER F. BOGGESS, A. M., M. D.,
Professor of the Practice of Medicine and Physical Diagnosis.

E. O. WITHERSPOON, M. D.,
Professor of Inorganic Chemistry.

W. T. MCKINNEY, M. D.,
Professor of Materia Medica and Demonstrator of Histology and Pathology.

DANIEL P. YOUNG, LL. B.,
Professor of Medical Jurisprudence.

H. B. TILESTON, M. D., D. D. S.,
Professor of Operative Dentistry and Dental Pathology, 314 Equitable Building.

E. M. KETTIG, M. D., D. D. S.,
Professor of Prosthetic Dentistry, Crown and Bridge Work, 318 West Walnut Street.

WILLIAM E. GRANT, M. D., D. D. S.,
Professor of Orthodontia, 318 West Walnut Street.

NEWTON T. YAGER, D. D. S.,
Professor of Anaesthetics and Oral Diseases, 215 West Chestnut Street.

W. ED. GRANT, M. D.,
Professor of Anatomy, 723 West Jefferson Street.

RAYMOND E. GRANT, D. D. S.,
Professor of Crown and Bridge Work and Clinical Orthodontia.

H. A. DAVIDSON, A. M., M. D.,
Professor of Physiology and Embryology.

W. MARCUS RANDALL, D. D. S.,
Professor of Operative and Prosthetic Technics, Dental and Comparative Dental Anatomy.

MAX M. EBLE, D. D. S.,
Professor of Practice, Ethics, and History, Equitable Building.

H. B. HOLMES, D. D. S.,
Professor of Dental Materia Medica and Therapeutics, 1114 Frankfort Avenue.

ADOLPH O. PFINGST, M. D.,
Professor of Physiology, Chestnut Street.

BENJ. F. ZIMMERMAN, A. B., M. D.,
Professor of Pathology, 1003 Morton Avenue.

RICHARD T. YOE, M. D.,
Adjunct Professor of Diseases of the Chest and Physical Diagnosis.

JOSEPH A. SWEENEY, M. D.,
Adjunct Professor of Principles and Practice of Medicine.

CHARLES FARMER, M. D.,
Adjunct Professor of Anatomy and Assitant to Chair of Surgery.

T. A. HAYS, M. D.,
Demonstrator of Anatomy.

SAMUEL P. MEYER, M. D.,
Adjunct Professor of Physiology.

OSCAR W. DOYLE, M. D.,
Adjunct Professor of Theory, Practice of Medicine, and Clinical Medicine.

J. C. ROGERS, *M. D.,*
Associate Professor of Physiology, St. Charles Flats.

J. B. RICHARDSON, M. D.,
Associate Professor of Histology, Chestnut Street.

W. CARL GRANT, M. D.,
Associate Professor of Anatomy.

E. LEE HEFLIN, M. D.,
Lecturer on Operative and Minor Surgery.

J. F. DOESCH, PH. G., M. D.,
Lecturer on Pharmacy.

THE CENTRE COLLEGE
OF
KENTUCKY

THE CENTRE COLLEGE OF KENTUCKY.

COLLEGE CALENDAR

1907

January 4—Friday, Winter term begins.
February 22—Friday, Washington's Birthday.
February 28—Thursday, Day of Prayer for Colleges.
March 15—Friday, Winter term closes.
March 18—Monday, Spring term begins.
May 17—Friday, Senior examinations concluded.
June 7—Friday, Final examinations concluded.
June 9—Sunday, Baccalaureate Sermon, 11 A. M.
June 9—Sunday, Address before Y. M. C. A., 8 P. M.
June 10—Monday, Oratorical Medal Contest, 8 P. M.
June 11—Tuesday, Meeting of Board of Trustees, 9:30 A. M.
June 11—Tuesday, Class-Day Exercises, 10 A. M.
June 11—Tuesday, Address before Alumni Association, 8 P. M.
June 12 Wednesday, Annual Commencement, 10 A. M.
June 13—Thursday, Summer vacation begins.
September 11—Wednesday, Fall term begins.
November 28—Thursday, } Thanksgiving Holiday.
November 29—Friday, }
December 20—Friday, Noon, Christmas vacation begins.

1908

January 3—Friday, Winter term begins.
January 23—Thursday, Day of Prayer for Colleges.
February 22—Saturday, Washington's Birthday.
March 13—Friday, Winter term closes.
March 16—Monday, Spring term begins.
June 10—Wednesday, Annual Commencement.

THE CENTRE COLEGE OF KENTUCKY.

FACULTY.

FREDERICK WILLIAM HINITT, PH., D., D. D.,
President.

JOHN CILLEY FALES, A. M., LL. D.,
Dean, Librarian, and Thomas Swope Professor of Geology and Biology.

JAMES VENABLE LOGAN, D. D., LL. D.,
Professor of Psychology, Ethics and Logic.

ALFRED BRIERLY NELSON, A. M., M. D.,
Professor of Mathematics.

JOHN W. REDD, A. M.,
Professor of Greek Language and Literature.

SAMUEL ROBERTSON CHEEK, A. M.,
Professor of Latin Language and Literature.

CHARLES GRAHAM CROOKS, A. M.,
Secretary of the Faculty, and Henry Bell Walters Professor of Mathematics.

CLARENCE MCCHEYNE GORDON, PH. D.,
Professor of Physics.

ARCHIBALD HALL THROCKMORTON, A. M., LL. B.,
Professor of History, Economics and Political Science.

THOMAS LINDSEY BLAYNEY, PH. D.,
Professor of Modern Languages.

MAURICE GARLAND FULTON, A. M.,
Professor of English.

FRIEND EBENEZER CLARK, PH. D.
Professor of Chemistry.

JOHN Q. A. MCDOWELL, D. D.,
Instructor in Biblical Literature.

J. RICE COWAN, M. D.,
Instructor in Hygiene.

EDWARD BRIERLY NELSON, A. M.,
Instructor in Physics.

WILLIAM E. JOHNSTON,
Instructor in Physical Culture.

JAMES LLEWELLYN CRENSHAW,
Assistant in Chemical Laboratory.

WILLIAM LYNE STARLING,
Assistant in Modern Languages.

THOMAS GRAHAM WATKINS,
Assistant in Physical Laboratory.

LOGAN BERRY ENGLISH,
Assistant in English.

JOSEPH BAILEY BROWN,
Assistant in Modern Languages.

DAVID BROOKS COFER,
Assistant in Library.

STANDING COMMITTEES OF THE FACULTY.

CLASS OFFICERS.

Senior Class.....Prof. Redd
Junior Class.....Prof. Gordon
Sophomore Class.....Prof. Cheek
Freshman Class.....Prof. Crooks
Special Students.....Prof. Fulton

Undergraduate Studies.

Professors Redd, Gordon, Cheek, Crooks, Fulton, Blayney.

Graduate Studies.

President Hinitt, Professors Blayney, Clark, Fulton.

Student Athletics.

Professors Throckmorton, Gordon, Cheek.

Student Organizations and Publications.

Professors Fales, Fulton, Logan.

College Buildings.

Library and Gymnasium—Professors Fales, Nelson.
Main Building—Professors Redd, Gordon.
Breckinridge Hall—Professors Cheek, Blayney.
College Home—Professors Throckmorton, Crooks.

ADMISSION TO THE COLLEGE.

1. ADMISSION BY EXAMINATION.—Candidates for the Freshman class, who do not bring certificates from accredited schools, will be examined on the subjects necessary for entrance to the particular course chosen.

Examinations for admission are held on the first and second days of the first term. For the date, see the Calendar on Page 24.

2. ADMISSION BY CERTIFICATE.—Students are admitted to the Freshman class upon presentation of a certificate issued by the superintendent or principal of an accredited school. Blank certificates can be obtained by applying to the Secretary of the President, Central University, Danville, Ky.

The Faculty Committee on Accredited Schools is now engaged in a re-examination of the courses of study and facilities of the various high schools and academies tributary to the College. The list is not yet complete.

Accredited Schools.

The following schools are fully accredited, their graduates being prepared for the Freshman class in all courses in Centre College:

Ashland High School.....Ashland, Ky.
Centre College Academy.....Danville, Ky.
Charleston High School.....Charleston, W. Va.
Covington High School.....Covington, Ky.
Cynthiana High School.....Cynthiana, Ky.
Greenville High School.....Greenville, Miss.
Hardin Collegiate Institute.....Elizabethtown, Ky.
Henderson High School.....Henderson, Ky.
Jeffersonville High School.....Jeffersonville, Ind.
Male High School.....Louisville, Ky.
Mt. Sterling High School.....Mt. Sterling, Ky.
New Albany High School.....New Albany, Ind.
Patterson-Davenport School .....Louisville, Ky.
Pine Bluff High School.....Pine Bluff, Ark.
Rugby School .....Covington, Ky.
Somerset High School.....Somerset, Ky.
Stanford Male and Female Seminary.....Stanford, Ky.
University School .....Louisville, Ky.
University School .....Memphis, Tenn.

The following schools are partially accredited, their graduates being prepared for certain courses or conditioned in one or more subjects:

Augusta City School.....Augusta, Ky.
Bedford Institute .....Shelbyville, Tenn.
Branham and Hughes School.....Spring Hill, Tenn.
Canton High School.....Canton, Miss.
Carlisle High School .....Carlisle, Ky.
Carr Institute .....Fulton, Ky.
Catlettsburg City School.....Catlettsburg, Ky.
Costello's Private School.....Paris, Ky.
Dyersburg High School.....Dyersburg, Tenn.
Eminence High School.....Eminence, Ky.
Frankfort High School.....Frankfort, Ky.
Hopkinsville High School.....Hopkinsville, Ky.
Huntington High School.....Huntington, W. Va.
Knoxville Public School.....Knoxville, Tenn.

Kentucky Military Institute.....Lyndon, Ky.
Lancaster City School.....Lancaster, Ky.
Maysville High School.....Maysville, Ky.
Manual Training High School.....Louisville, Ky.
McCallie School.....Chattanooga, Tenn.
McTyeire School .....McKenzie, Tenn.
Morganfield High School.....Morganfield, Ky.
Newport High School.....Newport, Ky.
Owensboro High School.....Owensboro, Ky.
Peacock's School for Boys.....Atlanta, Ga.
Paducah High School.....Paducah, Ky.
Princeton High School.....Princeton, Ky.
Shelby High School.....Shelbyville, Ky.
Stanford High School.....Stanford, Ky.
State Normal School.....Bowling Green, Ky.
State Normal School.....Richmond, Ky.
S. W. Buchanan Collegiate Institute.....Campbellsville, Ky.
Sue Bennett Memorial School.....London, Ky.
Texarkana High School.....Texarkana, Ark.
Threlkeld Select School.....Nicholasville, Ky.
Vanderbilt Training School.....Elkton, Ky.

ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES.

Total Requirement: 14 units.

Every candidate for Courses A or B must offer the following:

English (page 33)	3 units
Mathematics (page 35)	2 units
Latin (page 36)	3 units
History (page 39)	1 unit
Science (page 39)	1 unit
Total	10 units

Three additional units must be offered as follows:

Classical Course, A.

Greek (page 37)	2 units
Latin (page 36)	1 unit
Elective	1 unit
Total	4 units

Modern Language Course, B.

German (page 37)	2 units
Latin (page 36)	1 unit
Elective	1 unit
Total	4 units

Every candidate for Scientific Course C-1, C-2, or C-3, must offer the following:

English (page 33)	3 units
Mathematics (page 35)	3 units
History (page 39)	1 unit
Science (page 39)	1 unit

In addition, two to four units from the following group must be offered:

Latin (page 36)	2 to 4 units
Greek (page 37)	2 units
German (page 37)	2 to 3 units
French (page 38)	1 to 2 units

To complete the requirement of fourteen units for all courses, choice may be made from the following group:

Algebra (page 36)	½ unit
Solid Geometry (page 36)	½ unit
Plane Trignometry (page 36)	½ unit
Mechanical Drawing (page 40)	1 unit
Shop Work (page 40)	1 unit
Physics (page 39)	1 unit
Chemistry (page 40)	1 unit
Botany (page 40)	½ unit
Zoology (page 40)	½ unit
Physical Geography (page 39)	½ unit
Physiology (page 39)	½ unit
History (page 39)	1 unit
Civics (page 39)	½ unit
English (page 35)	1 unit

Definition of a Unit.

The unit is five recitation periods per week for one year.

DEFINITION OF ENTRANCE REQUIREMENTS.

I. *English.*

The requirement in English includes a knowledge of English grammar and of the principles of English composition, and an acquaintance with the literary selections named below:

Grammar and English Composition.—The applicant should be able to state intelligently the essential principles of English grammar, and to explain the syntactical structure of any sentence encountered in his reading.

As preparation for the requirement in composition, sustained and regular practice in writing is essential. The student should prepare numerous written exercises throughout the years of his preparatory course, and a sufficient number of these exercises should be corrected by the teacher and revised by the student to secure the desired accuracy. The subjects upon which the student writes should not be drawn exclusively from literature; a considerable proportion of them should be so distributed as to give proper training in the various types of discourse; namely, description, narrative, argument, and exposition. The student should be grounded in the essentials of rhetoric, but those principles should receive emphasis which are most likely to be of service to him in his practice in writing; such as the principles of sentence-structure, paragraphing and outlining the essay.

Reading of Classics—These readings are divided into two classes, those works intended for thorough study and practice, and those intended for general reading.

For thorough study: for 1907-1908, Shakespeare's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus, Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

For general reading: for 1907-1908, Shakespeare's *Merchant of Venice* and *Julius Caesar;* the Sir Roger de Coverley

Papers in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.* Three units.

For the information of those preparing for entrance in 1909, the following list of books for reading, which will be required then is given:

Group I. (two to be selected): Shakespeare's *As You Like It, Henry V, Julius Caesar, The Merchant of Venice, Twelfth Night.*

Group II, (one to be selected): Bacon's *Essays;* Bunyan's *The Pilgrim's Progress,* Part I; The Sir Roger de Coverley Papers in *The Spectator;* Franklin's *Autobiography.*

Group III. (one to be selected): Chaucer's *Prologue;* Spenser's *Faerie Queene,* (selections); Pope's *The Rape of the Lock;* Goldsmith's *The Deserted Village;* Palgrave's *Golden Treasury* (First Series) Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV. (two to be selected): Goldsmith's *The Vicar of Wakefield;* Scott's *Ivanhoe;* Scott's *Quentin Durward;* Hawthorne's *The House of the Seven Gables;* Thackeray's *Henry Esmond;* Mrs. Gaskell's *Cranford;* Dickens's *A Tale of Two Cities;* George Eliot's *Silas Marner;* Blackmore's *Lorna Doone.*

Group V. (two to be selected): Irving's *Sketch Book;* Lamb's *Essays of Elia;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *Heroes and Hero Worship;* Emerson's *Essays* (Selected); Ruskin's *Sesame and Lilies.*

Group VI. (two to be selected): Coleridge's *The Ancient Mariner;* Scott's *The Lady of the Lake;* Byron's *Mazeppa* and *The Prisoner of Chillon;* Palgrave's *Golden Treasury* (First Series) Book IV., with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome;* Poe's *Poems;* Lowell's *The Vision of Sir Launfal;* Arnold's *Sohrab and Rustum;* Longfellow's *The Courtship of Miles Standish;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good*

News from Ghent to Aix, Evelyn, Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, Pheidippides.

For study and practice in 1909: Shakespeare's *Macbeth;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

It is expected that the applicant will have read these books appreciatively and will have made himself familiar with the subject-matter and the form of each work. The reading should be connected, in reasonable measure, with the lives and characters of the authors read and with the history of their times.

Although the books mentioned above are recommended as preparation for this part of the requirement, they are not prescribed. Books of equal merit, covering a similar range of literary types will be accepted as equivalents.

The applicant must present an explicit statement from his instructor that the entire requirement has been fulfilled. Three units.

History of English Literature—The applicant who offers four units in English composition and literature should have pursued the study throughout the four years of the high school course. In addition to the foregoing requirements, his preparation should include a systematic study of the Outlines of English literary history. Due emphasis should be laid upon the division of the subject into periods; and the leading characteristics of each period should be studied, and as far as practicable, illustrated by the reading of representative authors. Any of the current manuals of English literature may serve as a basis for this part of the course. The historical study should, however, be associated as closely as possible with the reading of classics. One unit.

II. *Mathematics.*

Elementary Algebra—(1) *To Quadratics.*

The four fundamental operations, factoring, highest common factor, lowest common multiple, fractions (including

complex fractions), both numerical and literal linear equations of one or more unknown quantities, problems depending upon linear equations, radicals, exponents (including fractional and negative), ratio and proportion. One unit.

(2) *Quadratic Equations, Binominal Theorem, and Progressions.* Quadratic equations, properties of quadratics, simultaneous quadratic equations, problems depending upon quadratic equations, the binomial theorem for positive integral exponents, arithmetic and geometric progressions. One-half unit.

Advanced Algebra.—Undetermined coefficients, the binominal theorem for negative and fractional exponents, logarithms with applications, permutations and combinations, the theory of equations with the solution of numerical equations, and the elements of determinants. One-half unit.

Geometry—The requirements cover the whole of Plane Geometry as presented in such texts as those of Wentworth, Wells, Phillips and Fisher, Beman and Smith, or McMahon. The student must be able to construct diagrams and make fundamental constructions quickly and accurately, and to prove all central theorems, giving the reason for each statement made and going back step by step until the final ground of the statement is reached in a definition, an axiom, or a postulate. Much attention should be given to the proof of original propositions and the solution of numerical problems. One unit.

Solid and Spherical Geometry.—The propositions given in the texts mentioned above, together with the solution of numerous originals, both theorems and numerical problems. One-half unit. Required in 1908-9 and thereafter.

Plane Trigonometry—As given in the texts of Murray, Lyman and Goddard, Wentworth, Wells, Phillips and Strong, or a full equivalent. One-half unit.

III. *Latin.*

1. Grammar and Prose Composition. Translation into Latin of simple English sentences. One unit.

2. Cæsar, Gallic War, Books I-IV, with questions on forms, the constructions and subject-matter. One unit.

3. Vergil, Aeneid, Books I-VI, with questions on the constructions, subject-matter and prosody. One unit.

4. Cicero, Six Orations, with Prose Composition continued. One unit.

IV. *Greek.*

Xenophon. Anabasis, Books I, II, III, IV.

Grammar. Goodwin or equivalent. A knowledge of Attic inflection and of the principles of syntax is essential.

Prose Composition. Collar and Daniell or equivalent. Ability to put simple English into Greek, ***with accent,*** is necessary. Two units.

V. *German.*

The requirements for entrance into the Freshman Class in this subject correspond to those of the majority of the better institutions of the country, as they have been suggested by the Modern Language Association of America.

The examination will be upon the following subjects, and presupposes the reading of two hundred duodecimo pages of easy prose:

1. *Grammar.* A thorough knowledge of the forms, and familiarity with the commoner usages of syntax.

2. *Composition.* The ability to translate simple English sentences into idiomatic German.

3. *Reading.* The candidate will be asked to translate at sight a German selection containing no unusual words.

4. *Pronunciation.* The reading aloud of ten lines of easy prose.

The department would call the attention of teachers to the excellent report of the "Committee of Twelve" of the Modern Language Association, which contains a full discussion of the methods, outline of courses, etc., and which will be sent by the Department upon receipt of twenty cents to all teachers desiring a copy.

The importance of a thorough knowledge of the rudiments of the grammar, as contained in Bierwirth's or Vos' Essentials of German Grammar, cannot be too severely insisted upon. The work should comprise, (1) Careful drill upon pronunciation. (2) The memorizing and frequent recitation of easy colloquial sentences. (3) Drill upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives both strong and weak, pronouns, weak verbs and the more usual strong verbs, such

as gehen, sprechen, finden, sehen, kommen, fahren, etc., also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word order. (4) Abundant easy exercises for the purpose both of fixing in the mind the forms and principles of grammar and to cultivate readiness in the reproduction of natural forms of expression. This includes the ability to read and write German script. (5) The reading of two hundred pages of easy prose, with constant practice in translating into German easy variations upon the sentences read or the reproduction of the sentences from memory. The necessary reading matter may be found in any standard graduated reader, or in such stories as Storm's *Immensee,* Gerstacker's *Germelshausen,* or similar text. Two units.

VI. *French.*

(1) Translation of ordinary simple French prose at idiomatic English. It is believed that the ability to translate simple prose can be acquired by careful reading of not less than three hundred and fifty duodecimo pages chosen from the works of several authors. (2) Translation of simpler English sentences into French. This requirement presupposes careful training in elementary French grammar. This includes the conjugations of regular verbs, of the more common irregular verbs, such as voir, dire, tenir, aller, savoir, faire, pouvoir, as well as the classes represented by, connaitre, conduire, dormir, ouvrir, craindre; the inflection of nouns and adjectives for gender and number, except rare cases; uses of articles and partitive construction; the forms and positions of the personal pronouns, the uses of other pronouns and of interrogative, possessive, and demonstrative adjectives. (3) The ability to pronounce French with a fair degree of accuracy. One unit.

VII. *Advanced German, French and Spanish.*

Candidates for higher classes than the Freshman in German and those who desire advanced credits in French and Spanish are required to stand an examination on all the work proviously done by the class which they desire to enter. The attention of teachers in High Schools is called

to the fact that examinations for advanced standing in all courses in this department include the history of the country whose language is being studied as contained in any of the volumes of "History of the Nations Series" (Putnam) or works of like scope. The entrance examination in second year Spanish includes the History of the Moors in Spain.

VIII. *History and Civil Government.*

Any one of the four following courses may be presented:

(1) Ancient History, with special reference to Greek and Roman history, and including the chief events of the Middle Ages to the death of Charles the Great (814). One unit.

(2) English History, the equivalent of a course based on Montgomery's *Leading Facts of English History.* One unit.

(3) American History, the equivalent of a course based on such a manual as Fiske's or Larned's *History of the United States.* One unit.

(4) Civics. A good knowledge of the origin, principles, forms and powers of the national, state and local governments is required. Fiske's *Civil Government* is suggested as a text. One-half unit.

IX. *Science.*

(1) Physical Geography—as much as is contained in Appleton's or Guyot's *Physical Geography.* One-half unit.

(2) Physiology—as much as is contained in the briefer course of Martin's *Human Body,* or in Walker's or Foster and Shore's *Physiology.* One-half unit.

(3) Elementary Physics—embracing mechanics, sound, heat, light and electricity, with laboratory work. One unit.

Not less than six school periods a week for one year should be given to the subject. The course should be based upon a set of laboratory experiments performed by the pupils individually. The original note-book in which the student recorded the steps and results of his experiments, with the endorsement of his teacher certifying that the notes are a true record of the pupil's work, must be presented. The

recitations should be on the laboratory exercises, and some elementary text book. Schools without a supply of elementary apparatus sufficient for individual experimenting should not undertake to meet this requirement.

(4) Elementary Botany—the equivalent of Bergen's *Elements of Botany* or Coulter's *Plant Relations,* with laboratory work on the anatomy and physiology of the higher plants. One-half unit.

(5) Zoology—the equivalent of Kellogg's *Elementary Zoology,* or Davenport's *Introduction,* with laboratory or field work. One-half unit.

(6) Elementary Chemistry—the equivalent of Remsen's *Elements of Chemistry.* One unit.

All applicants will be required to present for examination their original notes of laboratory work, together with the annotations and certificate of the instructor, who should insist on careful manipulation and correct annotations.

X. *Drawing.*

Candidates must submit a complete set of drawings, made under the supervision of a teacher of drawing and properly certified by him. These drawings should show ability in the candidate to execute plain lettering, to make orthographic sketches of machine parts, and orthographic projection. One unit.

XI. *Shop Work.*

Thorough manual training in wood work and machine tool work. A note book containing description and of sketches of work done is required. One unit.

DEFECTIVE PREPARATION.

In view of the fact that many High Schools and Academies, naturally tributary to the College, do not fully prepare their graduates to meet the requirements for admission to a College with so high a grade, special arrangements are made by which this preparation may be supplemented. Students are admitted to College provided they have at least eleven units credit, and by taking extra studies these deficiencies can be made up in the first two years.

ADVANCED STANDING.

Candidates for advanced standing are examined, in addition to the studies required for admission, in those which have been pursued by the class which they propose to enter or in others equivalent to them. Only in exceptional cases will certificates from secondary schools be accepted for studies which are offered for advanced standing. In no case will such credits be allowed until passed by the Faculty Committee on Undergraduate Studies.

Those who have been members of other colleges must present certificates of regular dismission, and they will be given credit for the studies pursued. Those bringing letters of dismission from colleges having the same or equal requirements for admission with Centre and which offer the same or equal courses of study, will be admitted without examination, to the same standing as they have held in the institution from which they come.

No student will be admitted as a candidate for a college degree later than the beginning of the Junior Year, except that one coming with proper dismission from another institution of similar grade may be received not later than the beginning of the Senior Year.

ADMISSION OF SPECIAL STUDENTS.

Mature persons of good character who desire to pursue some special subject and who have had the requisite preliminary training are allowed to enter the various courses of study in the College without becoming candidates for a degree. Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

REQUIREMENTS FOR DEGREES.

Requirements For the Degree of Bachelor of Arts.

The degree of Bachelor of Arts will be conferred upon the candidate who has completed 202 term hours work, including all the required studies of Course A, the Classical Course, or of Course B, the Modern Language Course, according to the following exhibit:

Course A—Classical.

Freshman Year.

Required Studies.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Latin	4	3	3	64	130-134
Greek	4	3	4	61	91-93
English	3	4	4	58	60-62
Mathematics	5	4	3	65	150-152
Biblical Literature		3		53	1
History			3	62	111
Hygiene	1			76	229
	17	17	17		

Sophomore Year.

Required Studies.

Latin	4	3	4	64	135-139
Greek	3	4	4	61	94-96
English	3	3	5	58	63-65
Biblical Literature	3			53	2
History		3		62	112
	13	13	13		

Elective Studies, twelve hours.

Mathematics	4	4	4	66	153-155
Physics	4	4	4	77	230-232
Chemistry	4	4	4	55	30-32
Biology	4	4	4	53	10-13
German	4	4	4	69	170-172

Junior Year.

Required Studies.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Psychology	3			74	220
Logic		3	3	74	221
Biblical Literature	2			53	3
German	4	4	4	69	170-175
	9	7	7		

Elective Studies, twenty-eight hours.

English	3	3	3	59	66-68
French	3	3	3	72	196-198
Greek	3	3	3	61	97- 99
Latin	3	3	3	64	140-143
Surveying		3	3	67	163
History	3	3	3	63	113-116
Public Speaking		3			
Physics	4	4	4	77	230-237
Chemistry	4	4	4	55	30-35
Biology	4	4	4	53	10-16
Mathematics	3	3	3	66	156-158

NOTE—If no science has been elected heretofore, two sciences must be chosen. Otherwise, one course in the science not yet elected. In case, however, Mathematics 156 is elected, the science requirement for graduation will be two sciences, one to be taken in the Junior, the other in the Senior year. Two years of German must be completed for graduation.

Senior Year.

Required Studies.

Ethics	2			75	225
Economics	3	3		78	250-251
Political Science			3	79	252
Theism		2	2	75	226
	5	5	5		

Elective Studies, thirty-four hours.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Greek	3	3	3	65	100-104
Latin	3	3	3	64	140-143
German	3	3	3	70	173-175
French	3	3	3	72	199-201
Spanish	3	3	3	73	208-210
Italian	2	2	2	73	214-216
English	3	3	3	59	69-75
Public Speaking		3			
History	3	3	3	63	113-116
Sociology	3			79	254
Philosophy	3	3	3	74	222-225
Philology	2	2	2	71	191
Mathematics	3	3	3	66	156-161
Astronomy	3	3		67	162
Chemistry	3	3	3	55	30-35
Physics	3	3	3	77	230-237
Biology	3	3	3	53	10-18
Geology	3	3	3	54	19-23
Business Law	1			79	253

NOTE.—The science omitted, if any, to be elected. An elective course continuing through the year must be completed.

Course B—Modern Language.

Freshman Year.

Required Studies.

Latin	4	3	3	64	130-134
German	4	3	4	70	173-176
English	3	4	4	58	60-62
Mathematics	5	4	3	65	150-152
History			3	62	111
Biblical Literature		3		53	1
Hygiene	1			76	229
	17	17	17		

Sophomore Year.

Required Studies.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Latin	4	3	4	64	135-139
German	3	4	4	70	178-181
English	3	3	5	58	63-65
Biblical Literature	3			53	2
History		3		62	112
	13	13	13		

Elective Studies, twelve hours.

Mathematics	4	4	4	66	153-155
Physics	4	4	4	77	230-232
Biology	4	4	4	53	10-13
Chemistry	4	4	4	55	30-32

Junior Year.

Required Studies.

Psychology	3			74	220
Logic		3	3	74	221
French	3	3	3	72	196-198
Biblical Literature	2			53	3
	8	6	6		

Elective Studies, thirty hours.

English	3	3	3	59	66-68
German	4	4	4	70	183-185
Greek	3	3	3	61	90
Latin	3	3	3	64	140-143
History	3	3	3	63	113-116
Public Speaking		3			
Physics	4	4	4	77	230-237
Chemistry	4	4	4	55	30-35
Biology	4	4	4	53	10-16
Surveying	2	2	2	67	163
Mathematics	3	3	3	66	156-158

NOTE—If no science has been elected heretofore, two sciences must be chosen. Otherwise, one course in science not yet elected. In case, however, Mathematics, 156 is elected, the science requirement for graduation will be two sciences, one to be taken in the Junior, the other in the Senior year.

Senior Year.

Required Studies.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Ethics	2			75	225
Economics	3	3		78	250, 251
Political Science			3	79	252
French	3	3	3	72	199-201
Theism		2	2	75	226
	8	8	8		

Elective studies, twenty-six hours. For departments, consult electives of the Senior year, Course A. Page 44.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE.

The Degree of Bachelor of Science will be conferred upon the candidate who has completed 202 term hours work, including all the required studies of Course C, the Scientific Course, either Course C-1, the Scientific Engineering Course, Course C-2, the Pre-Medical Course, or Course C-3, the General Scientific Course.

The exhibit of these courses is as follows:

Scientific Course C—1, Engineering.

Freshman Year.

All Studies required.

Mathematics	5	4	3	65	150-152
German	4	3	4	70	173-176
English	3	4	4	58	60-62
Drawing	4	4	4	57	50
Biblical Literature		3		53	1
History			3	62	111
Hygiene	1			76	229
	17	18	18		

NOTE.—Those offering Latin or Greek for Courses C-1, 2, or 3, will take German and continue in this study through the Sophomore year. Those offering sufficient French, may continue that language in the Freshman year and take German in the Sophomore and Junior years.

Sophomore Year.

All Studies required.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Mathematics	4	4	4	66	153-155
German	3	4	4	70	178-181
Drawing	3			57	51
Chemistry	4	4	4	55	30-32
Physics	4	4	4	77	230-232
English			3	59	65
	18	16	19		

Junior Year.

All Studies required.

Mathematics	3	3	3	66	156-158
Physics	3	3	3	77	233-237
Chemistry	3	3	3	56	33-36
French	3	3	3	72	196-198
Psychology	3			74	220
Logic		3	3	74	221
Drawing		2	2	57	51
Biblical Literature	2			53	3
	17	17	17		

Senior Year.

Required Studies.

Economics	3	3		78	250, 251
French	3	3	3	72	199-201
Theism		2	2	75	226
	6	8	5		

Elective Studies, twenty-six hours.

Scientific German	3	3	3	71	186
Spanish	3	3	3	73	205-207
Italian	2	2	2	73	214-216
Drawing	3	3	3	58	52
Mathematics	3	3	3	67	159-161
Surveying		3	3	67	163
Astronomy	3	3		67	162
Physics	3	3	3	78	239-244
Chemistry	3	3	3	56	37-41
Geology	3	3	3	54	19-23

For other electives, consult electives under Course A. Page 44.

Scientific Course C—2, Pre-Medical.

Freshman Year.

All Studies required.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
German	4	3	4	70	173-176
English	3	4	4	58	60-62
Mathematics	5	4	3	65	150-152
Biology	4	4	4	53	10-13
Biblical Literature		3		53	1
History			3	62	111
Hygiene	1			76	229
	17	18	18		

NOTE.—Consult note under Freshman year. Course C-1, page 46.

Sophomore Year.

All Studies required.

German	3	4	4	70	178-181
English	3		3	58	63, 65
Chemistry	4	4	4	55	30-32
Physics	4	4	4	77	230-232
Biology	3	3	3	54	14-16
History		3		62	112
	17	18	18		

Junior Year.

All Studies required.

Chemistry	3	3	3	56	33-36
Physics	3	3	3	77	233-237
Biology	3	3	3	54	17, 18
French	3	3	3	72	196-198
Psychology	3			74	220
Logic		3	3	74	221
English		3	3	59	72, 73
Biblical Literature	2			53	3
	17	18	18		

Senior Year.

Required Studies.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Economics	3	3		78	250, 251
French	3	3	3	72	199-201
Theism		2	2	75	226
	6	8	5		

Elective Studies, twenty-four hours. For departments, consult electives of the Senior year, Course A, Page 44.

Scientific Course C—3, General Scientific.

Freshman Year.

All Studies required.

German	4	3	4	70	173-176
English	3	4	4	58	60-62
Mathematics	5	4	3	65	150-152
Drawing } One	4	4	4	57	50
Biology } One				53	10-13
Biblical Literature		3		53	1
History			3	62	111
Hygiene	1			76	229
	17	18	18		

NOTE.—Consult note under Freshman year, Course C-1, Page 46.

Sophomore Year.

All Studies required.

German	3	4	4	70	178-181
English	3			58	63-65
Chemistry	4	4	4	55	30-32
Physics	4	4	4	77	230-232
Mathematics } One	4	4	4	66	153-155
Biology } One				54	14-16
History		3		62	112
	18	19	16		

Junior Year.

All Studies required.

Subjects	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Chemistry	3	3	3	56	33-36
Physics	3	3	3	77	233-237
French	3	3	3	72	196-198
Mathematics } One	3	3	3	66	156-158
History } One				63	113-116
Biology } One		3	3	54	17, 18
Drawing } One				57	51
English } One				59	72, 73
Psychology	3			74	220
Logic		3	3	74	221
Biblical Literature	2			53	3
	17	18	18		

Senior Year.

Required Studies.

Economics	3	3		78	250, 251
French	3	3	3	72	199-201
Theism		2	2	75	226
	6	8	5		

Elective Studies, twenty-four hours. For departments, consult electives of the Senior year, Course A. Page 44.

REMARKS ON SCIENTIFIC COURSES.

The Scientific Course is announced in three forms, in order to meet the varying requirements of scientific students.

Course C—1 is for those desiring to specialize in Engineering. The Freshman and Sophomore years are the same as in the general engineering courses of technical schools. The necessary shopwork in wood and metal working can be taken during these years with the equipment provided by the college at this time. The more extensive mechanical equipment for the advanced courses is now in contemplation, and will be installed, it is expected, in the near future. This course provides in the Junior and Senior years for specialized work in Chemical, Electrical and Civil Engineering under the general schedule of work given above.

Course C—2 is for students with special interest in Biological Science or who may be preparing for a medical course. Graduation from this course will entitle the student to advanced standing in medical colleges of the first rank. The emphasis is laid on the work in Biology, including General Biology, Morphology, Embryology, Histology, Bacteriology and Physiological Chemistry, in connection with the regular two years in Chemistry and Physics.

Course C—3 is for students desiring a more general course in science and provides for certain options allowable to those not desiring to prepare for some special scientific vocation.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS.

Bachelors of the several courses of the academic department of Centre College of Central University of Kentucky, or graduates of other institutions having requirements for the baccalaureate degree which are substantially equivalent, may be enrolled in the Graduate Department as candidates for the degree of Master of Arts, (A. M.).

Application for enrollment must be made in writing to the Committee on Graduate Studies not later than October 1st of the collegiate year in which the degree is to be taken. In case the degree is not conferred after one year of study a second notice must be filed with the Committee three months before the second examination, accompanied by a fee of $25.00, unless this be in the case of a fellow who has been allowed to extend his course over two years.

With the application an outline of the candidate's intended course of graduate study must be submitted together with the signed approbation of the professors with whom he expects to work. This choice of subjects is final.

The tuition fee of the Graduate Department is $100.00, payable in advance in three installments at the opening of each term. In addition a diploma fee of $10.00 is charged, payable when the Thesis is submitted for examination.

The degree of Master of Arts will be conferred upon those candidates who, having complied with the above requirements, shall have completed the required graduate work as follows:

1. They shall have completed to the satisfaction of the professors in charge a course of graduate study, which is the equivalent of fifteen hours of class work a week.

2. This course shall be pursued at this College during a residence of not less than one collegiate year. Work "in absentia" will not be recognized towards a degree.

3. This course of study shall consist of a principal subject (Major) and a subsidiary subject (Minor).

4. The Major and the Minor subjects must be chosen with the consent of the Committee on Graduate Studies, in different but related departments.

5. The courses must be of an advanced character and the work done by a candidate show zeal and ability. No subject counted for the baccalaureate degree or towards a professional degree will be counted for the Master's Degree.

6. Of the fifteen hours of required work a week, five hours shall be devoted to the minor subject.

7. Not later than one month before Commencement the candidate must submit to the Committee on Graduate Studies a thesis approved by the professor in charge of the major course.

8. The candidate's thesis having been approved by the Committee, he must pass a satisfactory examination before a board of three examiners, consisting of the professors in charge of the candidate's major and minor subjects and a representative of the Committee on Graduate Studies. The signatures of the three members of the examining board must appear on the report of the examination to the President of the University.

9. Before the successful candidate receives his diploma he must deposit in the University Library a typewritten copy of his thesis, properly bound.

COURSES OF INSTRUCTION.

1. BIBLICAL HISTORY AND LITERATURE.

PROFESSOR FULTON AND DR. MCDOWELL.

1. *The Gospels.* An inducive study of the life of Christ. Texts, the Revised Version and Stalker's *Life of Christ.*

The Pauline Epistles. A study of several of the epistles. Stalker's *Life of Paul.* Three hours, second term, Freshman year.

2. *Old Testament History.* The general course of the political, social and religious history of the Hebrews. Texts, the Revised Version and Blaikie's *Manual of Bible History.* Three hours, first term, Sophomore year.

3. *The Bible as Literature.* A study of the general literary structures, as narrative, wisdom, oratory, lyric and dramatic poetry, prophecy. Text, Moulton's *The Literary Study of the Bible.* The Revised Version. Two hours, first term, Junior year.

II. BIOLOGY AND GEOLOGY.

PROFESSOR FALES.

BOTANY.

10. *Introductory Course.* Relationship of living things; animals and plants treated on parallel lines; variation, heredity, sex, adaptations; connection of plants and animals; distribution; the cell as unit of structure. Lectures, four hours, first term, Freshman year.

11. *Ecology.* General treatment; local forms examined to illustrate hydrophytic, mesophytic and xerophytic conditions. *Physiology.* Laboratory studies on absorption, transpiration, respiration, heliotropism, photosynthesis, etc. Four hours, first term, Freshman year.

12. *Morphology.* Macroscopic and microscopic examination of typical thallophytes, bryophytes, pteridophytes and spermatophytes. Four hours, second term, Freshman year.

13. *Histology.* Lectures, readings and laboratory work on structure of tissues; microscopic technique; preparation of permament mounts for department collections. Four hours, third term, Freshman year.

14. *Bacteriology.* A course will be offered to such as are prepared to enter upon it, as preparatory to future studies in this important branch. Three hours, Senior elective.

ZOOLOGY.

15. *Ecology.* Survey of animal kingdom as a whole; primitive and successful forms; comparative structure of animals; life history; adaptation; parasites; metamorphosis; mimicry; variation; intellect and reason; food; habitat; distribution. Lectures, Sophomore year.

16. *Morphology.* Differential study of typical Protozoa, Porifera, Hydroyoa, Anellida, Mollusca; Arthropoda and typical vertebrata; comparative osteology of the latter. Three hours, first, second and third terms, Sophomore year.

17. *Embryology.* Attention will be mainly directed to the development of the chick as representing the vertebrate type. Three hours, first and second terms, Junior year.

18. *Histology.* Lectures and laboratory work on special tissues; microscopic technique; preparation of permanent mounts. Three hours, second and third terms, Junior year.

GEOLOGY.

The following courses are offered in this department:

19. *Physiography.* The aim will be to investigate the present condition of the earth as the abode of man; its atmosphere, the ocean, the lands, and the mountains. Rain and stream erosion will be studied with reference to local condition. Three hours, Senior elective.

20. *Dynamical Geology.* Study of the agencies and processes at work in the past; methods of investigation; theories of earth's origin critically examined. Three hours, Senior elective.

21. *Structural Geology.* Earth's form; sedimentation and stratification; conformity and unconformity; volcanoes; earthquakes; fractures and veins; mountain making. Three hours, Senior elective.

22. *Historical Geology.* Course will cover the whole subject, with special study of the Trenton, Devonian and subcarboniferous as represented in the vicinity. Three hours, Senior elective.

23. *Palaeontology.* Scope of the study indicated; preserv-

ation of fossils; use of these as a means of identification of formations; connection with modern biology and embryology; classification as a convenience; study of typical forms; local collections made and species determined. Three hours, Senior elective.

III. CHEMISTRY.

PROFESSOR CLARK AND MR. CRENSHAW.

In addition to the regular fee, which is demanded of students in all laboratory courses to cover general wear of the laboratory appliances, water and gas, a special deposit of two dollars is required of each student of Chemistry. This sum is to compensate the department for any breakage that may have been incurred during the year. Settlement is made at the end of the college year or at such time as the student may finish or discontinue his work.

All students of Chemistry are earnestly advised to take up their work in Physics at the earliest possible time, since certain phases of the work in Chemistry presuppose at least an elementary knowledge of Physics.

30. *General Chemistry.* Required of all candidates for a degree. In this course the student is introduced to the simpler chemical phenomena and laws of the science, through experimental lectures, laboratory instruction and recitation. The so-called non-metals will occupy the whole of the term. Four hours, first term.

31. *General Chemistry.* Prerequisite 30. This is a continuation of Course 30. The study of the non-metals will be completed during the early portion of term; and a start will be made on the second phase of the year's work, namely, the study of the metals and their compounds. Laboratory instruction is especially emphasized. Four hours, second term.

32. *General Chemistry.* Prerequisites 30, 31. In this course which is a continuation of 31, the laboratory instruction becomes by far the most important part of the work, consuming at times as much as three-fourths of the time allotted. Elementary qualitative analysis is here introduced. Each student is required to familiarize himself with the commoner methods employed in detecting pure chemical compounds in solution.

During the latter portion of the term a series of about ten

lectures will be given along the lines of organic chemistry. Four hours, third term.

33. *Qualitative Analysis.* Prerequisite Chem. 30, 31, 32, and Physics 200, 201, 202. Required of candidates for scientific degrees. This is essentially a laboratory course, comprising a systematic qualitative study of both basic and acid forming elements. As soon as a fair knowledge of the action of pure chemical compounds is acquired, the student is taught to apply such knowledge to the analysis of unknown solutions. Analysis of mixtures of important compounds will follow.

From time to time the laboratory work will be supplemented by lectures and recitations dealing with certain historical and theoretical considerations, which naturally present themselves. Three hours, first term.

34. *Qualitative Analysis.* Prerequisite 33. During the greater portion of this course, which, in most respects, is a continuation of 33, the so-called dry method of analyzing compounds is employed. Through the use of the blow-pipe and other simple appliances, about fifty pure substances will be studied. The lectures and recitations will continue through the course. Three hours, second term.

35. *Qualitative Analysis.* Prerequisite 34. Advanced course. Study of minerals. The laboratory work involves the identification of a number of common minerals. Aside from the chemical considerations of the minerals, their physical properties, such as specific gravities, hardness, crystallographic forms, etc., will be taken up.

In the lectures will be presented some of the principles of crystallography, together with an outline of the distribution of minerals of economic importance. Three hours, third term.

36. *Inorganic Preparations.* Prerequisite 30, 31, 32, 33, 34. Starting with crude material, the student will be required to prepare a series of compounds in pure condition. At all phases the practical side of the work is emphasized, and, when possible, the experiments will follow the lines of important industrial operations. Three hours, third term.

With the permission of the instructor, this course may be substituted for 35.

37. *Quantitative Analysis.* Shorter course. This course is designed to familiarize the student with the elementary prin-

ciples of gravimetric chemical analysis. Three hours, first term.

38. *Quantitative Analysis.* Longer course. Prerequisite 37. This course involves more intricate gravimetric processes, and will serve to introduce volumetric analysis. In so far as possible the work will follow strictly practical lines; minerals, slags and commercial products will receive due attention. Three hours, second term.

39. *Quantitative Analysis.* Prerequisite 38. Advanced course. Quantitative study of the fuel, coking and gas-producing value of coals, sanitary analysis of waters, commercial analysis of flue and furnace gases, are indications of the work asked for. Three hours, third term.

40. *Organic Chemistry.* Prerequisites 30, 31, 32. During the time alloted to this course the student will take up a systematic study of the compounds of carbon, presented through lectures, recitations and laboratory instruction. Certain compounds, representative of the several series, will be prepared and their purity tested. This course is especially recommended to those contemplating the study of medicine. Three hours, second term.

41. *Organic Chemistry.* Prerequisite 40. As a continuation of Course 40, laboratory work will predominate over lecture and recitation instruction, during the latter portion of term. Experiments illustrating certain phases of animal metabolism will be introduced, and considerable time will be given to the ultimate analysis of carbon compounds. Three hours, third term.

Courses 40 and 41 under certain restrictions may be substituted for Courses 34 and 35.

IV. DRAWING.

PROFESSOR NELSON.

50. *Geometrical and Industrial* Drawing. This course embraces free-hand drawing and lettering, constructions in plane geometry and orthographic projection. Text, Anthony's *Mechanical Drawing.* Four hours, first, second and third terms, Freshman year.

51. *Descriptive Geometry and Machine Drawing.* The descriptive geometry is taught by recitations and the solving of problems on the drawing board. Texts, Faunce's *Descriptive Geometry;* Low's *Machine Drawing.* Three hours, first term,

Sophomore year; two hours, second and third terms, Junior year.

52. *Machine Drawing and Design.* An advanced course. Text, Low and Bevis' *Manual of Machine Drawing and Design.* Three hours, three terms. Senior elective.

V. ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR FULTON AND MR. ENGLISH.

The department of English offers courses in English composition and rhetoric, in the historical study of the English language, and in English and American literature. These courses seek to call forth a love of literature and a genuine appreciation of the scholarly spirit in literary work. The English classes are planned to encourage a student to read for himself, to give him broader views of the range of literary study, and to enable him to pursue specifically the study of some particular literary topic or period, or to follow in detail the development of some special category of literature.

60. *General Composition.* A practical course in writing, intended to teach correctness and clearness of expression, and to give practice in each of the prose forms. Bi-weekly compositions. Regular appointments for individual criticism. Analysis of prose specimens. Impromptu writing in class once a fortnight. Outside readings in the works of standard writers.

All new students are expected to take this course, unless there should be the clearest evidence of previous special training and attainment in the subject.

Students who show exceptional proficiency during the first term are admitted, at the discretion of the instructor, to a special section, in which the work is more advanced. Three hours, first term, Freshman year. Required of all students.

61. *General Composition.* Continuation of 60. Four hours, second term, Freshman year. Required of all students.

62. *General Composition.* Continuation of 60. Four hours, third term, Freshman year. Required of all students.

63. *General History of English Literature: From the Beginnings to* 1642. This course (in connection with 68 and 69) gives a survey of the development of English literature from *Beowulf* to *Tennyson.* The work consists of the study of representative classics with lectures explanatory of their historical connection. Each student will also be required to hand in a fort-

nightly essay, and to keep appointments for criticism. Three hours, first term, Sophomore year. Required of students in Courses A and B.

64. *General History of English Literature. From 1642 to Pope.* Continuation of 63. Three hours, second term, Sophomore year. Required of students in Courses A and B.

65. *General History of English Literature: From Pope to Tennyson.* Continuation of 63. Five hours, third term, Sophomore year. Required of students in Courses A and B.

66. *Milton.* His life and times. Lectures with reading from his English poems and selections from his prose. Three hours, first term. Junior elective.

67. *Eighteenth Century Writers.* A study of the classical writers and the beginnings of the romantic movement. Three hours, second term. Junior elective.

68. *Poems of the Nineteenth Century.* Intensive study of selected masterpieces from Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Tennyson, Arnold, Browning, Swinburne. Three hours, third term. Junior elective.

69. *Studies in Scientific Prose.* Analysis of masterpieces of scientific exposition. Practice in the collection and interpretation of material. Collateral reading in scientific biography. Intended primarily for students in Course C, but may be taken by students in other courses. Given if applied for by as many as six students. Two hours, first term. Elective in Junior or Senior year.

70. *Shakespeare.* Shakespeare's life and times; his personality and the development of his art; his relation to other Elizabethan dramatists. The study in class of at least six plays chosen to illustrate successive stages in the dramatist's development. A number of his other plays to be read outside of class. Three hours, first term. Elective in Senior year.

71. *English Literary Criticism.* An examination of the theories and opinions concerning poetry and the drama of some of the greater English critics from Dryden to Matthew Arnold. The application of critical principles to representative poems and dramas. Three hours, second term. Elective in Senior year.

72. *Representative Essayists.* The study of the development and characteristics of the literary essay, with intensive study of the essays of Lamb, DeQuincey, Carlyle, Ruskin, Emerson. Three hours, third term. Elective in Senior year.

73. *General Reading in Literature, History, and Biography.* Three courses of reading, one each term, intended to be of cultural value. Two prepared essays of 1,000 words on subjects drawn from the reading. Examinations at the end of each term by means of two extemporaneous essays calling for a general knowledge of the readings and important salient details. Open only to Seniors who have shown ability during their previous work in college, and to such only by permission of the instructor. In 1907-8, readings will be assigned in English poetry, English prose, literary essays, English biography, American biography, foreign biography. Two hours, each term. Senior elective.

74. *Reporting and Editorial Work.* This course is open only to editors and reporters of student publications, and to such students only by permission. One or two hours credit per term, according to the amount and quality of the work done.

75. *Special Composition.* This course is supplementary to the prescribed courses in composition, and at any time after the first year may be required of any student who shows inability to write clear and correct English. It consists wholly of theme work and consultation, and is continued in each case as long as the needs of the student require. As this work is in the way of making up deficiencies, no credit is given for the course.

76. *The Teaching of English.* Intended to meet the needs of those planning to teach English in high schools, academies, and college preparatory schools. Interpretative and critical studies of typical literary forms; aims and methods of teaching literature. Study of typical forms of prose with reference to their use in teaching composition; principles and methods of teaching rhetoric and composition. Open to students who receive special permission. Given if applied for by five students. Two hours, second and third terms. Elective.

VI. GREEK.

PROFESSOR REDD.

In this department the aim is to enable the student to acquire such a knowledge of the language as is essential to a liberal classical education. Stress is placed not only upon a careful study of the Greek language, its forms and syntax, but also upon the ancient Greek literature, its unity and originality, and the development, relationship and characteristics of its succes-

sive periods. Written examinations on Greek history and other subjects connected with Greek life are held each month.

90. *Elementary Course.* This course is offered to those students who have not studied Greek, and yet desire to take the classical course. An opportunity will thus be offered them to make up the entrance requirements. The work will be equivalent to the requirements for admission to the Freshman class.

91. *Lysias.* Five orations. Weekly exercises in translating from English into Greek, and monthly examinations in Greek history. The grammar is carefully reviewed and the general principles of syntax are applied to class reading. Four hours, first term, Freshman year.

92. *Herodotus.* Book VI. Weekly exercises in Greek prose composition, and monthly examinations in Greek history. Grammar; syntax studied and discussed. Three hours, second term, Freshman year.

93. *Homer's Iliad or Odyssey.* Four books. Grammar; prose composition and history continued. Seymour's *Language and Verse of Homer;* Jebb's *Introduction to Homer.* A study of Epic and Ionic literature. Four hours, third term, Freshman year.

94. *Plato's Apology and Crito.* A brief sketch of Greek philosophy. Syntax, prose composition and history continued. Three hours, first term, Sophomore year.

95. *Euripides.* (One play.) A study of the Greek theater, and the origin and development of the Greek drama. Metrical analysis of the play. Syntax, prose composition and history continued. Four hours, second term, Sophomore year.

96. *Aeschines against Ctesiphon.* A study of the Attic orators, and of the social and political life of the Greeks. Syntax, prose composition and history continued. Four hours, third term, Sophomore year.

97. *Demosthenes on the Crown.* A careful analysis of the argument and structure of the oration. A study of the Macedonian influence and of Athenian politics. Goodwin's *Greek Moods and Tenses.* Prose composition. Three hours, first term, Junior elective.

98. *Sophocles' Antigone.* A study of Greek drama and its influence. Metrical analysis. Jebb's *Primer of Literature;* Haigh's *Attic Theater.* Three hours, second term, Junior elective.

99. *A Tragedy of Sophocles or Euripides,* with metrical analysis. Study of Greek drama continued. Three hours, third term, Junior elective.

100. *Thucydides.* Goodwin's *Greek Moods and Tenses.* A study of the development of Greek history. Three hours, first term, Senior elective.

101. *A Tragedy of Aeschylus,* with metrical analysis. History of Greek literature. Moulton's *Ancient Classical Drama.* Three hours, second term, Senior elective.

102. *A Comedy of Aristophanes.* Special study of Greek comedy. Three hours, third term, Senior elective.

103. *Greek Literature.* A study of the masterpieces of Greek literature in English versions. This course will enable the student to appreciate the influence of Greek thought, Greek culture and Greek ideals upon the best in modern literature. A knowledge of the Greek language is not essential. Three hours, Senior elective.

104. *New Testament Greek.* This course is offered specially to those students who expect to prosecute the study further in Theological Seminaries. Three hours, Senior elective.

VII. HISTORY.

PROFESSOR THROCKMORTON, MR. ———.

111. *Mediaeval European History.* In this course is included a general outline of European history from the invasions of the Barbarians to the dawn of the Protestant Reformation, with particular attention to the Holy Roman Empire, the Papacy, the Crusades, the Revival of Learning and the Italian Renaissance. Through contact with the sources, the student is enabled to acquire knowledge at first hand, his interest is quickened, and he is encouraged to draw independent conclusions in regard to the great movements of the period. Freshman required, three hours, third term. Robinson's *History of Western Europe, Part I;* Robinson's *Readings in European History, Vol. I.*

112. *Industrial History of England.* The object of this course is to give the student a knowledge of the economic and industrial development of England and to serve as an introduction to the study of economics later in the course. Sophomore required, three hours, second term. Cheyney's *Introduction to the Industrial and Social History of England.*

113. *The Renaissance and the Protestant Reformation.* This course is devoted to a study of the revival of learning and of the arts in the later middle ages and to a careful consideration of the causes, progress and effects of the reformation movement. Junior and Senior elective, three hours. To be given during the first term 1907-8, and every second year thereafter, alternating with course 116. Fisher's *History of the Reformation.* Readings.

114. *The French Revolution.* This course includes a study of the system of absolute monarchy, of the various elements making for revolution, of the revolution proper, and of the Napoleonic era. Junior and Senior elective, three hours. To be given during the second term 1907-8, and every second year thereafter, alternating with course 117. Stephens's *Revolutionary Europe.* Readings.

115. *Modern Europe.* Attention is devoted chiefly to the political history of Europe since the fall of Napoleon, the readjustment of the European States, the progress of constitutional government and the rise of democracy. Junior and Senior elective, three hours. To be given during the third term, 1907-8 and every second year thereafter, alternating with course 118. Seignobos's *Political History of Contemporary Europe.*

116. *Constitutional History of England.* A careful study is made of the long period of the development of English political institutions, including the prerogatives of the Sovereign, the constitution and powers of Parliament, and the evolution of the Cabinet. Junior and Senior elective, three hours. To be given during the first term, 1908-9, and every second year thereafter, alternating with course 113. Dale's *English Constitutional History.*

117. *American History to* 1829. The period of discovery and exploration is passed over rapidly, and a close study is made of the settlement and growth of the several colonies, their government, and their social and economic conditions. Attention is devoted to the causes, the difficulties, and the ultimate triumph of the American Revolution, the adoption of the Federal Constitution, the formation and doctrines of political parties, and the growth of the country in territory and population. Lectures, essays, and maps. Junior and Senior elective, three hours. To be given during the second term 1908-9 and every second year thereafter, alternating with course 114. Thwaites's

The Colonies; Hart's *Formation of the Union;* Hodder's *Outline Maps.*

118. *American History from Jackson to Roosevelt.* The chief interest of this course centers in the critical changes in affairs wrought by President Jackson, the long agitation over the slavery question, secession, the Civil War, and the reconstruction of the Southern States. Lectures, essays, and maps. Junior and Senior elective, three hours. To be given during the third term 1908-9 and every second year thereafter alternating with course 115. Wilson's *Division and Reunion;* Hodder's *Outline Maps.*

VIII. LATIN.

PROFESSOR CHEEK.

130. *Selected Letters of Cicero.* Four hours, first term, Freshman year. Required of students in Courses A and B.

131. *Cicero's De Amicitia.* Three hours, second term, Freshman year. Required of students in Courses A and B.

132. *Horace's Odes or Satires.* Three hours, third term, Freshman year. Required of students in Courses A and B.

133. *Latin Composition.* One hour, first and second terms. Required of students in Courses A and B.

134. *Roman History.* Through the year. Written examinations. Required of all students taking Freshman Latin.

135. *Livy.* Four hours, first term, Sophomore year. Required of students in Corses A and B.

136. *Agricola of Tacitus.* Three hours, second term, Sophomore year. Required of students in Courses A and B.

137. *Andria and Heauton Timorumenos of Terence.* Four hours, third term, Sophomore year. Required of students in Courses A and B.

138. *Latin Composition.* One hour, through the year. Required of all students taking Sophomore Latin.

139. *Roman History.* Through the year. Written examinations. Required of all students taking Sophomore Latin.

140. *Annals of Tacitus.* Three hours, first term. Parallel readings will be assigned. Junior elective for those having completed the Latin of the Freshman and Sophomore years.

141. *Satires of Juvenal.* Three hours, second term. Parallel readings will be assigned. Junior elective for those having completed the Latin of the Freshman and Sophomore years.

142. *Comedies of Plautus.* Three hours, third term. Parallel readings will be assigned. Junior elective for those having completed the Latin of the Freshman and Sophomore years.

143. *Roman Literature.* Through the year. Written examinations. Required of all students taking Junior elective Latin.

IX. MATHEMATICS AND ASTRONOMY.

PROFESSOR CROOKS AND PROFESSOR NELSON.

Courses 150-152 are required of every candidate for a degree. All courses offered by the department are open to any student who is prepared to take them, and are so arranged as to meet the needs of the student who is pursuing the study of mathematics merely as a discipline, or who is preparing for graduate work or to enter an engineering profession.

The supply of engineering and astronomical instruments belonging to the department includes transits, levels, compasses, sextants, a six-inch telescope, and other valuable instruments.

150. *Algebra.* The subjects treated are ratio and proportion, variation, the progressions, undetermined coefficients, the binominal theorem for negative and fractional exponents, logarithms with applications, permutations and combinations, and a brief study of the theory of equations and the solution of numerical equations. First term, five hours. Required of all Freshman. PROFESSOR CROOKS.

151. *Solid and Spherical Geometry.* In addition to the study of the text, constant attention is given to the formal demonstration of original theorems and to the solution of numerical problems. Second term, four hours. Required of all Freshmen. Entrance requirement in 1908-9 and thereafter.
PROFESSOR CROOKS.

152. *Plane and Spherical Trigonometry.* Special emphasis is placed upon the general definitions of the functions, the relations of the functions, the reduction of trigonometric identities, the solution of trigonometric equations, and the development of formulæ. Much time is devoted to the solution of both plane and spherical triangles. Third term, three hours. Required of all Freshmen. PROFESSOR CROOKS.

153. *Advanced Algebra.* The principal topics are: Probability, the method of differences, convergence of infinite series, operations with infinite series, exponential and logarithmic series, continued fractions, the theory of numbers, the theory of equations, and determinants. Prerequisite to courses in Analytic Geometry and Calculus. First term, four hours.

PROFESSOR CROOKS.

154. *Analytic Geometry.* The course begins with the construction of many curves from their equations in order that the relation between the curve and its equation and the possibility of studying loci by means of their equations may be evident from the first. This is followed by a study of the straight line, the conic sections, and the general equation of the second degree with its interpretation, together with the solution of numerous exercises. The aim is to familiarize the student with the analytic method and its use in the discovery and demonstration of geometric properties of loci. Second term, four hours.

PROFESSOR CROOKS.

155. *Analytic Geometry.* A continuation of Course 154. This course includes a brief study of higher plane curves and an introduction to analytic geometry of three dimensions. As in Course 154, one of the chief aims is to teach the student a new method and to assist him to acquire some power and skill in its use in the study of curves and surfaces. Third term, four hours.

PROFESSOR CROOKS.

156. *Differential Calculus.* The chief topics are: The differentiation of functions of a single variable, expansion of functions, maxima and minima, indeterminate forms, differentiation of functions of several variables, successive differentiation, tangents and normals. First term, three hours.

PROFESSOR NELSON AND PROFESSOR CROOKS.

157. *Differential and Integral Calculus.* A continuation of Course 156. Asymptotes, contact and curvature, envelopes, and the general methods of integration. Second term, three hours.

PROFESSOR NELSON AND PROFESSOR CROOKS.

158. *Integral Calculus.* A continuation of Course 157. Integration as a summation, definite integrals, rectification of curves, areas, volumes, successive integration. Third term, three hours.

PROFESSOR NELSON AND PROFESSOR CROOKS.

159. *Analytic Mechanics.* Rest and motion; forces; static and kinetic measure of force; composition and resolution of forces; conditions of equilibrium; couples, their transformation and composition; center of gravity, examples involving single and double integration, rectangular and polar elements of mass; friction, with practical applications. Text, Bowser's *Analytic Mechanics.* First term, three hours. Senior elective.

PROFESSOR NELSON.

160. *Analytic Mechanics* (*continued*). Virtual velocity; mechanical powers; machines; funicular polygon; catenary curve; falling bodies; attraction; curvilinear motion; projectiles. Text, Bowser's *Analytic Mechanics.* Second term, three hours.

PROFESSOR NELSON.

161. *Analytic Mechanics* (*continued*). Newton's laws of motion; central forces, with applications to astronomy; motion in a resisting medium; impact; work and energy; moment of inertia; rotary motion; motion of a system of rigid bodies in space. Text, Bowser's *Analytic Mechanics.* Third term, three hours.

PROFESSOR NELSON.

162. *Astronomy.* This course is mainly descriptive and historical. Its purpose is to give the student a knowledge of the facts and principles of the science, and make him acquainted with the instruments and methods by which they have been discovered and deduced. The recitations are supplemented by observations of the heavenly bodies. The student is also taught how to locate the principal stars and constellations. A knowledge of physics and trigonometry is essential. Text, Young's *General Astronomy.* Three hours, two terms. Senior elective.

PROFESSOR NELSON.

163. *Surveying.* Heights and distances; computation of areas; plotting and mapping; compass and transit surveying; stadia measurements; laying out and dividing land; leveling; railway engineering; topographical surveying; plane table practice. Text and reference books, Carhart's *Plane Surveying,* Johnson's *Theory and Practice of Surveying,* Pence and Ketchum's *Surveying Manual.* Three hours, two terms, with necessary field work. Junior and Senior elective.

PROFESSOR NELSON.

X. MODERN LANGUAGES.

PROFESSOR BLAYNEY, MR. STARLING, MR. BROWN.

The courses offered in this department are either practical and cultural, linguistic, or literary, according to the needs and taste of the student. The courses, 173, 174, 175, 177, 178, 179, are chiefly practical in character, with the immediate end in view of giving the student at the earliest possible moment that command of the language which may be of use to him in after life in his business or profession, and which is indispensable in the equipment of the cultivated scholar. To accomplish this result modern and thoroughly scientific methods are employed. The department, however, does not lose sight of the fact that these practical and elementary courses are offered in the lower collegiate classes; that they are on a par with, and in certain cases a substitute for, the Ancient Languages; and that they have, therefore, a more important object to accomplish than merely placing the student in command of an idiom. The high pedagogic possibilities of the Modern Languages, as exemplified by the important position they now occupy in the leading institutions, is appreciated, and therefore the mental, moral and æsthetic training they can give, as most important mediums of general culture, emphasized both as regards grammatical treatment and choice of subject matter. The undergraduate departments are not intended to train specialists, but to give a well-rounded education.

The student having completed the elementary and required courses and having a facility in the language which warrants the undertaking of the higher and more special work, the department offers for his selection a variety of literary and linguistic courses. Though all of these courses are not offered in any one year, yet they are so arranged that they follow in natural sequence. In these courses the department places at the disposition of the students of the higher collegiate classes and, in certain cases, of the graduate courses, elementary literary and linguistic courses, serving at once as the natural continuation of required work and as precursors of special work in the graduate courses, should the Bachelor desire to acquire by graduate work in the Modern Languages the advantages of the Master's Degree. The undergraduate literary and linguistic studies are elective, but presuppose the completion of all courses up to, and including 181, with the single exception of 177. In the literary courses the masterpieces are critically read and the effort is made by means of lectures and parallel assigned readings to create the atmosphere proper to a right appreciation of the text. The development of the literature is followed in lectures. In

the linguistic courses the attention of the student is directed to the history of the language proper and its dialects; its relation to the other languages, especially to the English and the Indo-Germanic groups. These courses are intended especially for teachers and those intending to specialize in the one or the other of the languages. During the entire connection of the student with the department every opportunity is given him, if he show special aptitude, to acquire ability to speak the language.

Attention is called to the courses in Greek art and in Greek literature in the classic German translations of Voss, and Wilamowitz-Moellendorf, etc., offered as Senior electives to Undergraduates and Graduates of Course B.

In the Modern Language reading-room adjoining the department recitation room in East Breckinridge Hall, the student will find ample facilities for investigative work. This reading-room is equipped with French, German, Spanish, and Italian daily, weekly and monthly newspapers and periodicals, both philological and literary. The student is thus afforded excellent opportunity to supplement his studies by putting himself in intimate touch with the march of modern European thought.

The department is equipped with a stereopticon, and illustrated lectures will be given in the large department lecture-room, descriptive of the art and life of Germany, France, Italy, and Spain.

During the past year a number of large and valuable carbon reproductions of European works of art have been imported and placed upon the walls of the department.

GERMAN LANGUAGE AND LITERATURE

170. *Elementary German.* Elements of the language. Translation of German into idiomatic English. Careful drill on pronunciation. Daily exercise in composition. First term, four hours.

171. *Elementary German* (continued). Daily review of previous work, especially of the inflections. Daily but more limited exercise in composition. Reading outside the grammar begun. Memorizing of poems and colloquial sentences. Special attention given to pronouns and verbs. Second term, four hours.

172. *Elementary German.* Continuation of 170 and 171. Rapid reading for the purpose of equipping the student with an extended vocabulary. Review of grammar based on short daily exercises in composition. Easier syntactical problems mastered. Class criticism by students. Teaching mainly conducted in German.

Courses 170-172 do not count for Freshmen toward graduation, and can only be taken by Freshmen of Courses B and C

who have been conditioned at entrance examination.

In 1907 and after Courses 170-172 required of all Juniors of Course A, and may be elected by Sophomores of Course A.

173. *Intermediate German.* Rapid reading of stories by Wildenbruch, Seume, Fulda, etc. Review of Elements of Grammar continued by daily composition. Introduction to abstruser problems of syntax. First term, three hours.

174. *Literary German.* More difficult selections read—Heyse, Freytag, Dahn, etc. Sight reading. Memorizing. Composition. Syntax. Second term, four hours.

175. *Literary German* (continued). Selections from Sudermann's *Katzensteg,* Rosseger's *Waldschulmeister,* Scheffel's *Ekkehard,* Freytag's *Soll und Haben,* etc. Sight reading. Composition. Third term, four hours.

In Courses 173-175, parallel reading is required outside the class-room.

176. *German History.* Parallel reading in German. Regular monthly examinations on texts read. This course is supplemental to 173-175, and required throughout Freshman year.

Course 176 must also be taken by Juniors who elect German.

177. *Elementary German Conversation.* These courses are offered to students who show special aptitude and who desire a more practical knowledge of the language. For effective work classes are limited in number. Time to be arranged.

178. *Introduction to the Dramatists.* Freytag's *Die Journalisten,* Lessing's *Minna von Barnhelm,* Goethe's *Götz von Berlichingen.* Composition. Sight-reading. First term, three hours.

179. *Classical Drama.* Rapid reading of the chief works of Schiller and Lessing. *Nathan, Emilia Galotti, Maria Stuart, Die Jungfrau von Orleans.* Collateral reading in Kluge's *Geschichte der Deutschen National-Literatur,* and in other works. Sight reading. Second term, four hours.

180. *Goethe. Faust I,* Werther's *Leiden,* etc. Parallel reading in Kluge, and Lewes' *Goethe.* Sight reading. Third term, four hours.

181. *History of German Literature.* Parallel reading in German to courses 178-180 throughout Sophomore year. Monthly examinations.

Course 181 required also of Seniors who are continuing German.

182. *Advanced Conversation.* Open only to students who have taken course 177. Time and hours to be arranged.

183. *German Literature of the Nineteenth Century.* Rapid reading of selections from modern authors, with reports and essays on their lives and works in German.

184. *Das Niebelungen Lied.* Rapid reading of modernized text. Collateral reading and reports.

185. *Die Blüte des ritterlichen und höffischen Epos.* Introduction to the Epics of the Middle Ages. Extensive reading. Essays. Reports.

186. *Scientific German.* A course intended for those wishing to specialize in the natural sciences.

187. *The Language of Law and Diplomacy.* A course for students intending to study law or enter the service of the government abroad.

188. *German Historical Prose.* Rapid reading in historical and biographical criticism. Introduction to special work in history.

189. *Phonetics and Orthography.* Lectures on the Modern High German, including accent and stress. Alternates with 184.

190. *History of the German Language from* 1500 *to Goethe.* Lectures on the development of Modern High German from Luther to 1800. Alternates with 183.

191. *Introduction to Germanic Philology.* A connected consideration of the principal facts of linguistic development as illustrated by the Gothic, Old High German and Middle High German. Alternates with 185.

192. Griechische Literatur- Kunst- und Kulturgeschichte für Neuphilologen. Dieser Kursus ist nur für diejenigen bestimmt, die sich eine allgemeine Kenntnis der Hauptmerkmale der griechischen Kulturgeschichte aneignen wollen, und setzt eine besondere Kenntnis der deutschen Sprache voraus.

A. Griechische Literatur- und Kunstgeschichte mit Benutzung von Curtius' „Griechische Geschichte," Lübke-Semrau „Die Kunst des Altertums," u. s. w. First Term.

B. Griechische Heldendichtung und Beredsamkeit; Homer, Demosthenes u. s. w. Second Term.

C. Das Griechische Drama; ausgewählte Dramen von Aristophanes, Sophokles und Euripides in Uebersetzungen. Third Term.

HISTORY OF ART IN CONNECTION WITH GERMANIC AND ROMANIC PHILOLOGY.

History of Art with special reference to the development of Art in Germany. Senior Elective only with the special permission of the head of the Department. Open to all graduate students.

193. *Introduction to Ancient Art and its Influences on Medieval and Modern Art.* First Term. S. Reinach, *The Story*

of Art throughout the Ages; Tarbell, *A History of Greek Art;* Lübke-Semrau, Die Kunſt des Altertums.

194. *Introduction to Medieval and German Art.* Second Term. S. Reinach (*idem*); Goodyear, *Roman and Medieval Art;* Rosenberg, Handbuch der Kunſtgeſchichte; Springer, Kunſtgeſchichte; Band II und III.

195. *Introduction to Renaissance and Modern Art and its Influences on Germany.* Third Term. Goodyear, *Renaissance and Modern Art;* Knackfuss, Künſtler-Monographien; Eng. Müntz, *Le Musee d'art (des origines au XIXe siecle).*

ROMANIC LANGUAGES AND LITERATURES.

FRENCH.

196. *Elementary French.* Thorough drill on the elements of the Grammar. Careful exercise in pronunciation. Daily exercise in composition. Dictation. First term, three hours.

197. *Elementary French.* (Continuation of 192.) Grammar continued. Review work by means of daily graduated exercises in composition. Reading begun. Special attention given to the verbs. Memorizing of easy poems. Second term, three hours.

198. *Elementary French.* (Continued.) Rapid reading of easy prose. Grammar continued by means of composition work daily. Sight reading. Third term, three hours.

199. *French Prose of the Nineteenth Century.* Dumas père, Mérimée, Michelet, Verne, Loti, etc. Grammar. Composition. First term, three hours.

200. *French Literature of the Seventeenth Century.* Corneille, Racine, Molière, Bossuet, La Fontaine, Mme. de Sévigné, etc. Collateral reading. Second term, three hours.

201. *French Literature of the Eighteenth Century.* Voltaire, Diderot, LeSage, Rousseau, Montesquieu, etc. Parallel reading. Reports. Third term, three hours.

202. *The Sixteenth Century.* The period of transition. Marot, Ronsard, Rabelais, Montaigne and other representative writers of the Renaissance. Alternates with 195. First term, three hours.

203. *Contemporary French Literature.* Rapid reading from living authors. Large amount of parallel reading required. Alternates with 196. Second term, three hours.

204. *The Dawn of the Romantic Period.* Mme. de Stäel, Chateaubriand, Lamartine, etc. Rapid reading of chief works.

Collateral biographical reading. Alternates with 197. Third term, three hours.

205. *History of France.* Collateral readings required as supplemental to Courses 192-194. Monthly examinations.

206. *History of French Literature.* Outside reading required of all those taking Courses 195-197. Monthly examinations.

207. *Conversational French.* Open to those students who have shown marked ability, and who desire a practical knowledge of French. Time and hour to be arranged.

NOTE.—For graduate courses in French see Graduate Instruction.

History of Art with special reference to its development in France, see Courses 193, 194, 195 under German section.

SPANISH.

208. *Elementary Spanish.* Grammar. Composition. Pronunciation. First term, two hours.

209. *Elementary Spanish.* (Continued.) Grammar. Composition. Reading of easy prose begun. Second term, two hours.

210. *Elementary Spanish.* (Completed.) Rapid reading of more difficult prose by standard modern authors. Third term, two hours.

These courses are intended for those desiring to learn, as rapidly as possible, to read Spanish. Strict attention is given to accurate pronunciation according to the rules of the Spanish Academy. Students are not allowed to begin Spanish and Italian in the same year.

211. *Introduction to Spanish Prose Writers.* Rapid reading of more difficult prose—Valera, Galdos. First term, two hours.

History of the Moors in Spain. Collateral reading throughout second and third terms.

212. *Spanish Writers of the Nineteenth Century.* Alarcon, Pereda, Echegeray. Second term, two hours.

213. *Cervantes. Don Quixote.* Study of his life and works. Collateral reading and reports. Third term, two hours.

History of the Spanish Literature. This work must be done outside the class room and is controlled by monthly examinations.

History of Art with special reference to the Saracenic Art of Spain, see Courses 193, 194, 195 under German Section.

ITALIAN.

214. *Elementary Italian.* Careful drill in grammar. Daily exercise in composition. Pronunciation. First term, two hours.

215. *Elementary Italian.* (Continued.) Reading of easy prose begun. Grammar continued. Daily exercise in composition. Second term, two hours.

216. *Elementary Italian.* (Continuation of 212.) More difficult prose rapidly read for the purpose of acquiring a working vocabulary. Grammar. Composition. Third term, two hours.

217. *De Amicis.* Rapid reading of his better works. Collateral biographical reading. First term, two hours.

218. *Manzoni.* Selections from his chief prose works read. Parallel reading required. Second term, two hours.

219. *Goldoni.* His life and works. Class work, collateral reading, and reports. Third term, two hours.

XI. PHILOSOPHY.

PROFESSOR LOGAN.

220. *Psychology.* During the first term an elementary course is given preparatory to the study of Logic; Advanced Psychology and Metaphysics, and Theoretical Ethics. Three hours, Junior year. Text: Hill's *Elements of Psychology.*

221. *Logic.* The problems, principles and rules of Deductive Logic; the principles and processes of the Scientific Method, of Inductive Logic. Three hours, second and third terms, Junior year. Text: Wilton's *Manual of Logic, Vols. I and II.*

222. *Christian Evidences.* The Philosophy of Christian Evidences is pursued by recitation, commentary adapting and enlarging upon the text, and by abstracts prepared by the students and read in class. Three hours, first term, Senior year.

223. *Psychology and Metaphysics.* In this course the student is taught to erect the theory of mind by inductive procedure. Facts furnish the material and the tests of doctrine. The student is asked to try the validity of theory by appeal to his personal consciousness. The different powers and processes of the mind's activity are distinguished by their objects, their relations, their laws and the products; and the trustworthiness of the various processes and products of the activities is explained. Special prominence is given to the intuitions, and much pains is taken to explain and enforce the logical and ethical importance of a sound metaphysic.

The validity of knowledge as resting on the necessary principles of the reason; the reality of human knowledge, both of the natural and the spiritual, as the datum of the consciousness of knowing, and as opposed to all agnostic theory are carefully considered. Man's real knowledge of himself and of the universe of things is shown to have its end and to be completed in his knowledge of God; thus leading the thought through nature to nature's God and exhibiting the theistic conception of the world as the only rational, scientific system. Three hours during the year. Senior elective. Text: Harris' *Philosophical Basis of Theism.*

224. *History of Philosophy.* A course in the History of Philosophy is offered to acquaint the student with the logical progress of philosophical thought, and with the systems of the great masters in the sequence of their development. Three hours second and third terms. Senior elective. Text: Weber's *History of Philosophy.*

225. *Theoretical Ethics.* Theoretical Ethics is considered in the ground of moral obligation, the moral function of the will, the conscience, the nature of virtue, and the moral law.

Freedom is predicable of the person, not of a distinguishable faculty; free agency attributable to man, not "free will." The moral agent is self-determined—has the power to be the cause of his own action. Self-determination culminates in volition. Volition is regulated by motive. Motive is the subjective disposition in active appetency. Inducement to be distinguished from motive.

The moral reason, or conscience, is an original power of apprehending the right and obligatory. The moral judgment can not be analyzed into any simple elements. It is an intuition. The conscience asserts and is conceded a supremacy over all other powers and actions. Two hours, first term, required second and third terms. Senior elective. Text: Dabney's *Practical Philosophy.*

226. *Theism.* The theistic conception of the universe. Antitheistic theories. The progressive proof. Two hours, second and third terms, Senior year, required of Seniors. Text: Flint's *Theism.*

XII. PHYSICAL TRAINING AND HYGIENE.

DR. COWAN AND MR. JOHNSTON.

229. *Hygiene.* A course of lectures on the general principles of hygiene, the laws of health, the nature of disease, specific causes of disease, the prevention of disease, exercise as related to health, and other topics of importance at the pubertal age. One hour, first term, Freshman year. DR. COWAN.

Physical Culture. The college gymnasium is thoroughly equipped in every particular. The apparatus is all of the best and comprises everything needful for indoor exercise. There are both shower and tub baths. The offices for the physical director are also located in the gymnasium building.

All exercising is done under the direct supervision of an experienced instructor, and the attempt is made to suit work to the special needs and limitations of individual students. In cases of weak heart or disorder of any kind, due care is taken to prevent exertion that is too violent or improper in other respects.

Class exercise consists mainly of dumb-bell, Indian-club, and chest-weight movements, designed to bring all the muscles up to a symmetrical development. During the Winter term, when football, baseball, track athletics and tennis are out of season, gymnasium classes are held every afternoon. These classes are open to all. MR. JOHNSTON.

On the first Friday night in March the annual gymnastic exhibition is held.

Field and track athletics are encouraged by the Faculty within proper limits, and the training is carried on under the direction of competent instructors. The athletic field is one of the best in the South.

The athletic work of the College, both outdoor and indoor, is under the charge of the physical director, and the rules for intercollegiate athletics are rigidly enforced.

XIII. PHYSICS.

PROFESSOR GORDON, MR. NELSON AND MR. WATKINS.

The amount of Physics required of students, candidates for a degree, varies from one to three years according to the course. It is so arranged, however, that any student may begin the subject in his Sophomore year and continue it through the remainder

of his college course. The instruction in the several courses is given by means of recitations, lectures and laboratory work, the periods devoted to each being proportioned in the several courses as the best development of the subject may require.

Courses 230, 231 and 232 constitute an elementary study of general Physics. It may be taken by those who have had no previous training in the subject, but some High School work in preparation is advisable. Those who have had a preparatory course in Physics sufficient in extent and character to enable them to pass the entrance requirement in Physics as described on page 35 may be allowed to take more advanced courses to make up the requirements in Physics for a degree.

230. *Mechanics and Heat.* Four times a week—two single and two double periods. First term. Sophomore year.

231. *Electricity and Magnetism.* Four times a week. Third term. Sophomore year.

232. *Sound and Light.* Four times a week. Second term. Sophomore year.

233. *Electrical Measurements.* One recitation and two laboratory periods a week. First term, Junior year. Galvanic cells, galvanometers and the methods of measuring resistance. Texts: Thompson's Electricity and Magnetism; Carhart and Patterson; Stewart and Gee; Ames and Bliss.

234. *Electrical Measurements.* One recitation and two laboratory periods a week. Second term, Junior year. Measurement of capacities, inductances and magnetic quantities. Texts: Thompson's Electricity and Magnetism; Carhart and Patterson; Stewart and Gee.

235. *Electric Light and Power.* Three times a week, recitations and laboratory. Second term, Junior year. Dynamos, motors, transformers and electric lamps.

236. *Electrical Appliances.* Three times a week, recitations and laboratory. Third term, Junior year. Telephone, telegraphy, induction coils and medical apparatus.

237. *Light.* Three times a week, recitations and laboratory. Third term, Junior year. Photometry, lenses and optical instruments, the use of the spectroscope and polariscope.

238. *Machine Shop Practice.* Three times a week—eight to ten hours. First term. Wood and metal turning, forging, tempering and grinding of tools, boring and fitting, screw and gear cutting and drilling.

The preceding courses are primarily for undergraduates. The following more advanced courses are for graduates or undergraduates who have had sufficient preliminary courses. Physics 230 to 236, must precede 239, 240 and 241. For 242, 243 and 244, Physics 230 to 234, Mathematics 154, and Chemistry 30, 31, 32 and 35, are necessary, while Calculus and a reading knowledge of German are very desirable prerequisites.

239. *Direct Current Machinery.* Three times a week. First term. The theory and designing of direct current generators and motors, with laboratory tests.

240. *Alternating Current Machinery.* Three times a week. Second term. Recitations and laboratory tests on alternating machinery.

241. *Transmission and Distribution of Electricity.* Three times a week. Practical engineering problems. The several systems compared. The study of electric plants in operation.

242. *Chemical Physics.* Three times a week. First term. Lecture and recitations on the theory of atoms, molecules and solutions. Laboratory work on specific gravities and molecular weights by the vapor tension, boiling-point, and freezing-point methods.

243. *Electrochemistry.* Three times a week. Second term. Recitations and laboratory work on the conductivity of solutions, galvanic cells, and the deposition and refining of the metals by electrolysis.

244. *Thermochemistry and Chemical Dynamics.* Three times a week. Third term. Recitations and laboratory work on thermodynamics, heat of reactions, the law of mass action and the phase rule. Text: For 242-244, Jones's *Physical Chemistry.*

XIV. POLITICAL ECONOMY AND POLITICAL SCIENCE.

PROFESSOR THROCKMORTON AND MR. ———.

Three hours a week in Economics are required of all Seniors during the first and second terms and three hours a week in Political Science of all Seniors in Courses A and B during the third term. A statement of the course in detail is given below:

250. *Economics.* A study of the rise and progress of modern industry in England and the United States serves as an in-

troduction to this course and is followed by a study of economic principles with special reference to American conditions. Economic theory and practice are not studied as things apart, but throughout the course the effort is made to show their intimate connection. The more important questions in distribution, such as rent, profits, and wages are given detailed consideration with reference to existing competitive and monopoly conditions. Senior required, three hours, first term. Seager's *Introduction to Economics.*

251. *Economics.* This course is a continuation of 250. After a survey of the general field of Economics, some subject of especial timeliness is taken up and treated in detail by means of a text-book and lectures. The subject studied during 1906 was "The Trusts." Essays on assigned economic topics are required of each student and certain of these are selected to be read in class as the basis of a general discussion. Senior required, three hours, second term. Seager's *Introduction to Economics; Jenks's Trust Problem.*

252. *Constitutional Law.* This course consists of lectures on the historic development and present practice of the English government, and lectures on American colonial institutions, followed by a detailed study of the Constitution of the United States and the actual workings of the Federal government. Attention is called both to the theory and to the practice of governments, and the student is encouraged to make instructive comparisons. Senior required, three hours, third term. Cooley's *Principles of Constitutional Law.*

253. *Business Law.* The purpose of this course is to give the student a knowledge of the most essential principles of commercial law. It includes such subjects as contracts, agency, partnership, corporations, sales and commercial paper. Senior elective, one hour, second term. Gano's *Commercial Law.*

254. *Sociology.* This course serves as a general introduction to the study of society. Special emphasis is also laid upon the practical phases of the subject, with special reference to American conditions. Senior elective, three hours, first term. Wright's *Practical Sociology.*

GRADUATE INSTRUCTION.

AIMS.

It is the chief purpose of the Graduate Department to surround the student with that atmosphere which shall be the means of awakening in him an earnest sympathy with, and devotion to, the cause of the advancement of knowledge. It is at all times the endeavor of those in charge of the graduate work to excite a truly scholarly spirit by means of intimate personal guidance.

It is possible, and even advisable, that the student so arrange his undergraduate work in the college that it lead naturally to graduate study. The curriculum of the academic course contains, for this purpose, "undergraduate and graduate" courses, intermediate between courses intended primarily for undergraduates and those designed principally for graduates. By consultation with those in charge of graduate subjects the student will be enabled to so arrange his studies that he may obtain all the benefits of the broader education of the Academic Departments, and, at the same time, converge his efforts in such a manner that he may be in a position to do efficient graduate work.

METHODS OF INSTRUCTION.

The instruction in the Graduate Department is carried on either by means of lectures, class-room, laboratory, or seminar work, courses of investigative reading, original research work, or by various combinations of the foregoing. In assigning graduate work the professors are largely governed by the needs and temperament of the candidate. In every case the work allotted to the individual student is that which, in the judgment of the Committee on Graduate Studies, meets best individual requirements and existing conditions.

The lectures for candidates for the Master's Degree aim to bring the latest investigations in that particular field to the notice of the student. In those departments, where independent research work along literary or scientific lines is being carried on, the lectures embody the results of such work. Class-room courses are required to be supplemented by courses of parallel reading or investigation. Where the greater part of the work must, on account of its peculiar nature, be done by exhaustive

reading or personal investigation, such study is continually reviewed by the professor in charge. In every case, the greatest care is taken to make the work, whatever its nature, thorough and scholarly.

LABORATORY AND SEMINAR FACILITIES.

In the Graduate Department the College aims to furnish the student with all the necessities for efficient work. The greater part of the courses which are now being taken are conducted in well-equipped laboratories and seminars. These are being continually added to and enlarged. It is in the laboratory and seminar that the student reaps the fullest benefits of graduate work, and is encouraged by the personal direction of the professor to original investigation of an advanced character.

Graduate students have, at all times, access to the general library, as well as to the special libraries of the laboratories, seminars and department heads, and are thus enabled to prosecute work of advanced nature under favorable conditions.

FELLOWSHIPS.

For the encouragement of graduate work, the University has established five fellowships amounting to $250.00 each with all fees remitted, which will be assigned to students of the graduate department. The choice will be made on the basis of scholarship and general ability. The holders of these fellowships will be required to render service as instructors in the College, to the extent of not more than two hours each day, in the department or departments to which they may be assigned.

The regulations governing the assignment of fellowships are as follows:

1. The candidate must be of good moral character and have shown ability and application in his undergraduate work.
2. The applicant must be a candidate for the degree of A. M.
3. Application must be made in writing to the Committee on Graduate Studies.
4. The application must be accompanied by either a recommendation from the head of the department in which the candidate proposes to specialize, or, in case the student comes from

some other institution of recognized standing, by the presentation of proper credentials.

5. Fellowships can only be held by those whose education is represented by a college degree. However, application may be made by students about to take such a degree, since these regulations apply to the time of entrance upon the duties of the fellowship.

6. A fellow shall pursue his studies under the immediate supervision of the professor or professors having charge of his major and minor studies. The University services required of a fellow shall be assigned by the President of the University, and shall be carried forward under the direct supervision of the head of the department in which he is to give instruction.

SCHOLARSHIPS.

A limited number of $100.00 scholarships are available, and will be assigned under the rules governing fellowships. See above, Rules 1-5.

GRADUATE COURSES OF INSTRUCTION.

I. BIOLOGY.

PROFESSOR FALES.

300. *Botany.* Special morphology and histology. Experimental investigation of physiological problems. Plants injurious to vegetation. Local ecology. Bacteriology. Paleobotany.

301. *Zoology.* Comparative osteology. Embryology. Cytology. Economic entomology. Paleozoology.

302. *Geology.* No fixed course will be established to fit all cases. Different subjects will be assigned to the various candidates suited to develop accuracy of observation and test powers of generalization.

The following statement will give an idea of the kind of work required:

Examination and discussion of particular memoirs, which present especially interesting problems.

Personal investigation of some local phase, as section making with specific attention to the lithological and paleontological contents of formations from Trenton to St. Louis.

Study of local fossil fauna and flora, careful scrutiny of species which lived through more than one epoch to determine as far as possible the amount of variation and probable causes for it.

The candidate will collect all the material for his work.

II. CHEMISTRY.

PROFESSOR CLARK.

Candidates for the degree of Master of Arts in chemistry should possess a good reading knowledge of German, and must have had at least one year's work in experimental Physics. Those who, in addition, have fulfilled the requirements of the courses in chemistry offered to undergraduates in Centre College can usually obtain the Master's Degree in one year. For others a longer time will be required.

COURSES.

310. *Advanced Analytical Chemistry.* This course is intended to give a more extended knowledge of analytical methods than that offered in the undergraduate department.

311. *Advanced Organic Chemistry.* This course is an extension of Course 39, involving the preparation of compounds of carbon of a more complicated nature.

312. *Sanitary Chemistry.* The work is confined chiefly to the study of the methods employed in the examination of waters with reference to their fitness for domestic supply.

Problems concerning the public health are presented and instruction is given in approved methods of sewage disposal, and of the purification of water for public use.

The course includes also the examination of waters to be used in steam boilers, and for various industrial purposes, and may be extended to the analysis of mineral waters.

313. *Chemical Seminar.* Weekly meetings of the advanced students are held, when they are expected to report on special topics appearing in the various American and foreign chemical journals.

The students are referred constantly to original articles bearing on their own work. Reports on these subjects also are made from time to time, and thus the work of each student is made of interest and profit to all.

314. *Industrial Chemistry.* A lecture-room course, dealing with important industrial operations. When possible and convenient, excursions to nearby cities will be arranged, for the purpose of studying chemical plants. Two hours, first term.

315. *Industrial Chemistry.* Prerequisite 314. This is a continuation of 314. Two hours, second term.

316. *Industrial Chemistry.* Prerequisite 315. This course is a continuation of 315.

Thesis. An acceptable thesis upon an assigned topic is required of all candidates for the Master's Degree.

III. ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR FULTON.

Candidates for advanced work in the department of English must have passed undergraduate courses 60-69 (see pages 58-59), or their equivalents. The elective courses 70 *Shakespeare,* 71 *English Literary Criticism,* and 72 *Representative Essayists,* are open to graduate students as well as to Seniors, but in the case of graduate students, more extensive reading and more exhaustive research will be required. Course 76. *The Teaching of English,* may be counted towards an advanced degree.

Additional advanced courses for graduate students are:

320. *Old English.* A study of Old English grammar. Extensive reading of Old English prose and poetry.

321. *Chaucer.* A minute study of selected tales and poems. The life and thought of Chaucer's times.

322. *The History of English Critical Prose.* A rapid survey of the field showing the periods of development. Special study of influences in theory and method, and of the pivotal masterpieces.

323. *The Predecessors and Contemporaries of Shakespeare.* The rise and decline of the Elizabethan drama. Reading and analysis of representative plays.

324. *Milton.* His life and times. The reading of his English poems and selections from his prose.

IV. GERMANIC PHILOLOGY.

PROFESSOR BLAYNEY.

It is the aim of this department to acquaint the student with philological methods. For this purpose a number of courses on

special periods are offered both in literature and linguistics. Since the courses alternate, the whole of the candidate's attention is concentrated upon the study of a single period. He is expected to carry on independent investigative work along the line of the subject under consideration.

In order to pass the examination for the degree of Master of Arts in Germanics the student cannot confine himself solely either to the language or the literature. While an equal amount of both is not required, yet a fair knowledge of the history of the language and the elements of Comparative Philology are expected of those who specialize in the literature, and vice versa.

LITERATURE.

330. *History of the German Literature From Opitz to Goethe's Death.* A general sketch of the more important periods, intended as an introduction to the more special work of the succeeding courses. Lectures, Seminar work, reports.

331. *The Rise of the Middle Classes and Era of the Reformation.* The Volkslied. Didactic and satirical narrative. Beginnings of the drama. Humanism, Sebastian, Brant, Thomas Murner, Till Eulenspiegel, Fastnachtsspiel. Luther, Hans Sachs. Required reading. Discussions in the Seminar. Alternates with 332, 333, 334.

332. *Pseudo-Classicism and the Age of Frederick the Great.* Opitz, Gottsched, Gryphius, Klopstock, Wieland. Destruction of Gottschedianism; Lessing. Discovery of classic antiquity; Winckelmann. Lectures. Seminar work. Alternates with 331, 333, 334.

333. *Sturm and Drang,* Klinger, Bürger. Individualism; The great classics. Herder, Kant, Schiller, Goethe. The classics of criticism are consulted and reports made at the meetings of the Seminar. Alternates with 331, 332, 334. Given in 1908-9.

334. *Romanticism and the War of Liberation.* Novalis, the Brothers Schlegel, Tieck, Heine, Kleist, Grillparzer. Lectures on the modern tendencies of the German literature. Seminar course. Extensive reading. Essays. Alternates with 331, 332, 333. Given in 1908-9.

LINGUISTICS.

335. *History of the German Language.* Introduction to Germanic Philology. Gothic, Old High German, Middle High German, New High German. A connected consideration of the more

salient facts of historical development. Treatises of Behagel, Weise, Kaufmann, Paul's *Grundriss.* Meringer's *Indogermanische Sprachwissenschaft.* Seminar course. Alternates with 336, 337, 338.

336. *Gothic.* Introduction to special work in comparative philology. Braune's *Gotische Grammatik.* Hahn's *Ulfilas.* Seminar Course. Alternates with 335, 337, 338.

337. *Old High German.* Braune's *Althochdeutsche Grammatic,* Schauffler's *Althochdeutsche Litteratur.* Paul's *Grundriss,* etc. Seminar course. Alternates with 335, 336, 338. Not given 1907-8.

338. *Middle High German.* Paul's *Mittelhochdeutsche Grammatik,* Golther's *Der Niebelungen Not,* Güntter's *Walter von der Vogelweide,* Marold's *Auswahl aus dem höfischen Epos.* Seminar course. Alternates with 334, 335, 336. Not given 1907-8.

V. GREEK.

PROFESSOR REDD.

340. For admission to this course the completion of the undergraduate course in the Centre College, or an equivalent, is necessary. There will be a thorough study of the syntax of mood and tense and advanced form composition. Readings from the Attic orators, the dramatists, and Thucydides. The selections will be varied from year to year. Greek History and Literature. The private and public life of the Greeks. History of Athenian politics. Origin and development of the Greek drama. Metre and rhythm. Archaeology. Every effort will be made to assist the student in his private studies.

VI. HISTORY.

PROFESSOR THROCKMORTON.

350. *The French Revolution.* This is a seminar course devoted to a careful study of the revolutionary period, with special emphasis upon the causes and results of the French Revolution. Research work and reports. Three hours a week. Given during the Fall and Winter terms, 1908-9, and alternating with Course 351.

351. *History of Education.* This course has been especially arranged for students who expect to make teaching their profes-

sion, but considering, as it does, the history of education from the standpoint of the history of civilization, is illuminative and instructive to the general student. In addition to the text and source book, the student is required to read and report upon some of the greatest educational classics entire. Three hours a week. Given during the Fall and Winter terms 1907-8, and alternating with Course 350.

352. *American Constitutional History.* This course includes a study of the adoption of the Federal Constitution, of the great controversies that arose over its construction, and of the effect wrought by the Civil War on our constitutional system. Research work and essays. Three hours a week. Given during the Spring term, 1907, and alternating with Course 353.

353. *The Civil War and After in the United States.* Emphasis is placed upon the causes of the Civil War and its political aspects; a careful study is made of the reconstruction era in the South, and attention is called to recent departures in foreign policy. Three hours a week. Given during the Spring term, 1908, and alternating with Course 352.

VII. LATIN.

PROFESSOR CHEEK.

360. *Livy.* Three hours. Parallel readings from Tacitus.

361. *Letters of Cicero.* Three hours. Parallel readings from Pliny the younger.

362. *Satires of Horace.* Three hours. Parallel readings from Juvenal.

363. *Poetry of the Augustan Age.* Three hours. Reports to be made on assigned topics.

364. *Prose of the Silver Age.* Three hours. Reports to be made on assigned topics.

365. *Comedies of Plautus.* Three hours. Parallel readings from Terence.

366. *Roman Literature.* Through the year. Written examinations.

VIII. MATHEMATICS AND ASTRONOMY.

PROFESSOR CROOKS AND PROFESSOR NELSON.

370. *Calculus.* An advanced course based upon Williamson's *Calculus* and dealing principally with partial derivatives and multiple integrals with geometric applications. Three times a week for one year. PROFESSOR CROOKS.

371. *Plane Analytic Geometry.* Point and line co-ordinates, the principle of duality, the method of projection, anharmonic ratios, and the nature of co-ordinate systems are studied. Three times a week for one year. PROFESSOR CROOKS.

372. *Analytic Geometry of Three Dimensions.* An advanced course which must be preceded by Course 371. Twice a week for one year. PROFESSOR CROOKS.

373. *Modern Geometry.* A course in modern pure geometry consisting of class work, supplemented by assigned readings. Three times a week for two terms. PROFESSOR CROOKS.

374. *Differential Equations.* Ordinary and Partial Differential Equations. The work is based upon Page's *Ordinary Differential Equations* and Murray's *Differential Equations.* Three times a week for one year. PROFESSOR CROOKS.

375. *Theoretical Mechanics.* An advanced course in analytic mechanics. Requires a knowledge of analytic geometry and calculus. Three hours a week, one year. PROFESSOR NELSON.

376. *Theory of Equations.* Based on Burnside and Panton's *Theory of Equations.* Three hours a week, one year. PROFESSOR NELSON.

377. *Projective Gometry.* Emch's *Projective Geometry* and its applications. Twice a week, two terms. PROFESSOR NELSON.

378. *Quaternions.* Theory, with applications to geometry and mechanics. Three times a week, one year. PROFESSOR NELSON.

379. *Method of Least Squares.* Theory, with applications to problems in engineering and astronomy. Twice a week, one term. PROFESSOR NELSON.

380. *Theory of Functions.* The theory of a complex variable based on the ideas of Cauchy and Riemann. Three hours a week, one year. PROFESSOR NELSON.

381. *Practical Astronomy.* Determination of time; latitude and longitude; calculation of eclipses and occultations. PROFESSOR NELSON.

382. *Celestial Mechanics.* Attraction; orbits and ephemerides; perturbation. PROFESSOR NELSON.

IX. PHILOSOPHY.

PRESIDENT HINITT AND PROFESSOR LOGAN.

390. *History of Philosophy.* Lectures and prescribed readings. Texts, Ueberweg, Windelband, Zeller, Falkenberg, Fischer. PROFESSOR LOGAN.

391. *Ethical Theory.* The main problems and types of ethics as presented in Martineau's *Types of Ethical Theory,* Sidgwick's *Methods of Ethics* and Greene's *Prolegomena to Ethics.* PROFESSOR LOGAN.

392. *Realistic Philosophy.* A study of the Scottish School and its present representatives. McCosh's *First and Fundamental Truths* and Seth's *Scottish Philosophy.* PROFESSOR LOGAN.

393. *The Critical Philosophy of Kant.* Lectures, discussions and readings. *The Critique of Pure Reason,* Max Müller's translation; Paulsen's *Kant.* PRESIDENT HINITT.

394. *Post-Kantan Idealism.* Lectures and textual study. PRESIDENT HINITT.

395. *Recent British and American Philosophy.* The Neo-Hegelian school. Lectures and readings. PRESIDENT HINITT.

396. *Philosophy of Religion.* Lectures and readings. PRESIDENT HINITT.

X. PHYSICS.

PROFESSOR GORDON.

400. *Direct Current Machinery.* Three times a week, first term. The theory and designing of direct current generators and motors. Recitations and laboratory tests.

401. *Alternating Current Machinery.* Three times a week, second term. Recitations and laboratory tests on alternating machinery.

402. *Transmission and Distribution of Electricity.* Three times a week, third term. Practical engineering problems. The several systems compared. The study of electric plants in operation.

403. *Chemical Physics.* Three times a week, first term. Lectures and recitations on the theory of atoms, molecules and solutions. Laboratory work on specific gravities and molecular weights by the vapor tension, boiling-point and freezing-point methods.

404. *Electrochemistry.* Three times a week, second term. Recitations and laboratory work on the conductivity of solutions, galvanic cells and the deposition and refining of the metals by electrolysis.

405. *Thermochemistry and Chemical Dynamics.* Three times a week, third term. Recitations and laboratory work on thermodynamics, heat of reactions, the law of mass action and the phase rule. Text for 403, 404, 405. Jones's *Physical Chemistry.* Laboratory manuals.

406. *Advanced Electrochemistry.* A study of the development of the modern theories. Readings and reports on portions of advanced text-books, and original articles in the chemical and physical journals. Repetition of important experimental investigation.

407. *Recent Developments in Electricity.* A study of theories and applications of such recent origin or advanced character as to preclude their treatment in general text-books. Reading of special books and articles in physical and electrical journals. Laboratory work on special problems.

408. *Research.* Students who have had sufficient preliminary training are aided and directed in the investigation of original problems in electricity and electrochemistry.

XI. POLITICAL ECONOMY AND POLITICAL SCIENCE.

PROFESSOR THROCKMORTON.

410. *Applied Economics.* This is a seminar course dealing with the more important practical problems in economics. The present session has been devoted to a study of the Tariff, Transportation, and the Labor Problem. Three hours a week; given during the Fall and Winter terms, 1906-7, and alternating with Course 411. Taussig's *Tariff History of the United States,* Johnson's *American Railway Transportation,* Adams and Summer's *Labor Problems.*

411. *Financial History of the United States.* This course includes a study of the currency questions that have agitated the public mind, the State and National banking systems, the history

and causes of panics, and the present financial system of the United States. Three hours a week. Given during the Fall and Winter Terms, 1907-8, and alternating with Course 410. Dewey's *Financial History of the United States.*

412. *English and American Political Institutions.* This course is devoted to advanced historical and comparative study of the English and American constitutions. While the theory of the respective governments is not neglected, more especial emphasis is placed upon their practical working. Each student is required to make a careful study of and to prepare an essay upon some phase of Cabinet or Congressional government. Three hours a week. Given during the Spring term, 1907, and alternating with Course 413. Bagehot's *English Constitution,* Wilson's *Congressional Government,* Bryce's *American Commonwealth.*

413. *Constitutional History of the United States.* This course includes a study of the origins of the State and Federal governments, an account of the great constitutional questions which have arisen since the adoption of the Federal constitution, and the interpretation of that instrument by the Supreme Court. Special attention is directed to constitutional development in the States since the Civil War. Three hours a week. Given during the Spring term, 1908, and alternating with Course 412. Thorpe's *Constitutional History of the United States.*

XII. ROMANIC PHILOLOGY.

PROFESSOR BLAYNEY.

Candidates desiring to specialize in this department should have a reading knowledge of German. Prerequisites for graduate work in Romanic Philology are the required courses in the French Section of the Academic Department.

As the aim of this department is to train investigators, the efforts of candidates are concentrated upon the study of single periods. However, for the Master of Arts degree, neither the literature nor the language may be offered exclusively.

The following courses, which alternate the one with the other according to the needs of the candidates, are offered.

LITERATURE.

420. *History of the Drama and Pseudo-Classicism.* Mystères, Farces, Satires, Moralités. Jodelle, Garnier. The great classics of the XVII Century, with special attention to the dram-

atists. Seminar course. Extensive collateral readings. Alternates with 421 and 422.

421. *The Eighteenth Century.* (a) From 1700 to Rousseau. (b) From Rousseau to 1800. Voltaire, Les Encyclopédistes, Rousseau. La Comédie. Lectures, supplemented by investigative reading and discussions. Seminar course. Alternates with 420 and 422.

422. *The Literature of the Empire and Romanticism.* De Stäel, Chateaubriand, Lamartine, Victor Hugo, Alfred de Vigny, Alfred de Musset. Reports on assigned topics. Parallel reading. Seminar discussion. Alternates with 420 and 422.

LINGUISTICS.

423. *Introduction to the Study of Old French.* Reading of Old French texts. Nonnenmacher, Paris, or Paris-Langlois. Schwan's *Grammatik des Altfranzösischen.* Seminar course.

424. *History of the French Language.* History of its development from the vulgar Latin to the Sixteenth Century. Seminar lectures, with parallel reading in the authorities.

GENERAL INFORMATION.

LOCATION.

Advantages of Location.

Danville, the seat of the College, is situated on the main line of the Queen & Crescent Railroad, extending with its leased lines from Cincinnati to New Orleans, and is the terminus of the Louisville division of the Southern Railway; it is also near the Lebanon and Knoxville branch of the Louisville & Nashville Railroad, and is easily accessible from all quarters. Danville is very near the geographical center of the state, within the "Blue Grass" region, and is surrounded by an exceedingly beautiful and fertile country. It has an elevation of about one thousand feet above the level of the sea, and the surrounding country is undulating so as to afford perfect drainage. Probably no healthier spot can be found within the limits of the State. Malaria is unknown except when brought in from other sections of the country. This small city of about 5,000 inhabitants is noted for its high moral tone, and for the refinement and intelligence of its people. It has long been the seat of important educational institutions, for both men and women. The students of the College receive a warm welcome among the most cultured families of the city; few students come to Danville who do not find homes in it for which they form strong attachments and from which they part with reluctance. The town has strong churches of all denominations, and the people are church-going. *There are in the town no licensed saloons for the sale of intoxicating liquors.* The saloons were closed many years since by the Trustees, under the instruction of a decided vote of the people, and a special act of the Legislature makes it unlawful to retail liquor within two miles of the city limits.

Accessibility.

The way to reach Danville is via the trunk line known as the Queen & Crescent Route, or by the Southern Railway from Louisville and intervening and connecting points. Solid vestibuled trains via the Q. & C. run from New Orleans, Meridian, Birmingham and Chattanooga to Danville without change. There are eighteen passenger trains daily between Danville, Lexington, Louisville and Cincinnati.

ATTENDANCE, EXAMINATIONS AND STANDING.

1. *Registration and Attendance.*

All students should present themselves punctually at the opening of the session in September. Many disadvantages result from late entrance, and in some instances it has been found impossible for a student entering late to maintain his standing in the class. Prompt attendance is, therefore, earnestly enjoined upon all who wish to derive the full benefits of the course of instruction.

Prompt and regular attendance is required on all class and laboratory exercises. According to the method of recording absences, a student will lose the value of his course credits in proportion to his failure in attendance.

PUBLIC WORSHIP.

Devotional exercises, consisting of prayers, hymns, and Scripture reading, are conducted in the chapel every morning, and all the students are required to be present. They are also required to attend the preaching of the Gospel at least once on each Sabbath.

2. *Examinations and Standing.*

EXAMINATIONS.

Examinations of all the classes are held at the close of each of the three terms, and are conducted by the several professors in their departments. The final examinations of the graduating class close the third Friday in May. Special examinations are held during the year, as needed.

REPORTS.

Reports of each student's scholarship, attendance and general deportment are made to his parent or guardian three times a year. Special reports are made at shorter intervals if there is anything in the student's conduct or standing to call for them.

RANK OF SCHOLARSHIP.

The rank of scholarship in the graduating class of each year will be indicated in the Commencement program as follows:

Summa cum laude, prefixed to a degree, indicates that the recipient is a first class-scholar; *magna cum laude,* second-class; *cum laude,* third-class; those with no prefix have a grade below 85.

Students Below Grade.

When the grade of a student falls below 60, the instructor will report the fact at once to the President, who will send an official notification of the deficiency to the student, *and at the same time to the student's parent or guardian.*

When a student has had a grade of less than 60 for four consecutive weeks, he shall be dropped from the class, unless the instructor requests his retention on probation for a short time.

STUDENT ORGANIZATIONS.

Religious.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

This society aims to bring students under good influences and to furnish opportunities for Christian work in the College and its vicinity. Special efforts are made to help new students through its organized methods.

The work of the Association has been unusually active and successful during the present college year. This is specially true of the department of Bible Study.

The society has been provided with large and beautiful rooms in the Gymnasium, where its members meet for prayer and social intercourse. These rooms have been furnished by a generous friend.

READING ROOM.

The reading room in the Gymnasium is under the management of the Young Men's Christian Association and the two literary societies. Here are found the leading magazines and periodicals and the exchanges of the College monthly, *The Cento*. A student is appointed to receive and arrange the reading matter, and issue keys and membership privileges. Every student should connect himself with this organization.

Literary.

LITERARY SOCIETIES.

There are two literary societies connected with the College, —the Chamberlain and the Deinologian. For these the College provides commodious halls, which have been handsomely fitted up and furnished by the members. Both societies are supplied with good libraries, each containing about 3,500 volumes, which are receiving additions from year to year. The work of the societies is regarded as supplemental to that done in the class-rooms, and they are encouraged accordingly. Their exercises consist of debate, declamation, composition, and other forms

of literary activity, and are conducted under such rules and regulations as the societies may adopt, consistent with the general objects of the College.

Oratorical Exercises.

The literary societies hold public exercises on the 22d of February; and on the Monday preceding Commencement Day, an oratorical contest takes place between representatives of these societies. To the successful competitor in each contest, a gold medal is awarded. The successful contestant in the former contest represents the College in the annual Inter-Collegiate State Oratorical Contest. The representatives in the Chautauqua and Southern Inter-Collegiate Contests are appointed by the Faculty.

Student Publications.

The students of the College publish a monthly periodical, *The Cento,* which is devoted to the recording of current events in the college world, and to literary articles by the students, thus furnishing opportunity for valuable training in journalism to students with a gift for writing. In addition, an annual, *The Ec Centric,* is published every spring by the Senior class.

Musical and Dramatic.

Under the supervision of the Department of Public Speaking, a Dramatic Club is formed, and plays are presented each year. The Glee Club and Guitar and Mandolin Club enlist the musically inclined students of the College, and give concerts at intervals during the year.

Athletic.

The Athletic Association is composed of voluntary membership, and has charge of the outdoor sports of the College—football, baseball, track work and other athletic events. It is managed in connection with an advisory committee from the Faculty, and has been a marked success from its organization.

BOARDING AND DORMITORY FACILITIES.

BOARDING.

Many of the students live in private families, in which they enjoy the advantages of a Christian home, and are thus preserved from many temptations. Here the rates for board and room range from $3.50 to $5.00 per week.

The provision of good board for those who, on account of limited means, are not able to pay these prices, has been felt to be one of the most pressing needs of the College. This need has been largely met. Good board will henceforth be furnished at the lowest possible terms in the College Home and in Breckinridge Hall.

THE COLLEGE HOME.

In this, the Old College building, very comfortable rooms sufficient to accommodate a goodly number of young men, have been fitted up. These rooms, furnished with stove, chairs, bed, table and washstand, are rented for the small annual charge of $8 to applicants of good character and limited means.

The plan of placing the boarding department in the hands of students selected by the Faculty to carry it out, has proved successful, and the price of table board for the present year is only $2.00 per week. The Home will be conducted upon the same plan during the coming year. Application for accommodations in the Home should be made to the President as early as possible.

BRECKINRIDGE HALL.

This Hall is a beautiful and commodious dormitory building, with accommodations for about fifty students. The building is so constructed that each student has a bedroom to himself, two bedrooms opening into a common study. Each room has a grate for open fire. The College is able to offer comfortably furnished rooms in this building at a uniform charge to each student of $31 per year; this covers room rent, fuel, and water.

A limited number of those occupying rooms in Breckinridge Hall can, upon application to the steward, obtain board at the

College Home. For those who cannot be thus accommodated at the Home, good board can be found in private families for from $2.50 to $3.00 per week.

As these accommodations have been provided primarily to aid young men of limited means and industrious habits in obtaining, at the lowest possible cost, a liberal education, preference will be given in assignment of rooms to those studying for the ministry, and to others of limited means who maintain a high standard in character and scholarship.

Applications for rooms in this building must be made to J. A. Cheek, Treasurer, who will reserve rooms only on deposit of $5.00, which will be credited on the rent of the room. If the room is not taken and the balance of the rent paid, the deposit of $5.00 will be forfeited.

EXPENSES.

College Dues.

The Treasurer will be at the College for the collection of fees at the opening of each term, when all students are required to settle with him. Before a student is admitted to actual standing in any class, a class card showing that he has complied with the rules relating to College charges must be presented. No fees will be returned save in cases of removal from the College on account of severe and protracted illness.

Undergraduate Dues.

Tuition for regular schedule, First Term,	$18.00
Second Term,	16.00
Third Term,	16.00
Contingent Fees, First Term,	6.00
Second Term,	5.00
Third Term,	5.00

Where a student is allowed to take work in excess of his class schedule or program, he is charged a supplementary fee of four dollars for each additional course so taken.

The contingent fee is for the use of the library, gymnasium, heat for building and janitor service in care of same.

Damage deposit, $1.00 per term. The order of the Board of Trustees as to this deposit is as follows:

Ch. 9. Sec. 2. When damage is done to the College buildings or the appurtenances thereof, and the one who did it cannot be detected, it shall be paid for out of a deposit of one dollar, required at the opening of each term of all students. What remains of the deposit after paying for the damages done, shall be refunded to the students at the close of the year.

There is no charge for registration, if it is completed on the Registration Days; *otherwise, a fee of One Dollar will be charged.* This fee will be remitted only by order of the President, upon presentation of a sufficient excuse for such delay. *This rule will be rigidly enforced.* The mere fact of the student returning to Danville after the opening of the term will not be considered as a ground for remitting the charge for late registration, unless the cause of such delay be illness or an equally important reason. *This rule, however, does not apply to new students who may enter college too late for registration on the regular days.*

A graduation fee of $7, covering diploma fee and all expenses of Commencement Day, must be deposited by every candidate for graduation with the Treasurer of the College a month before Commencement. If the candidate should not receive a diploma, this deposit will be returned.

Laboratory fees are charged as follows:

Students in Chemistry are charged a fee of $3.00 per term. In the advanced course, $4.00 per term.

Students in the Physical Laboratory pay $3.00 per term.

Students in the Biological Laboratory pay $3.00 per term.

The above fees cover the cost of ordinary chemicals and material, but students are charged extra for breakage and for special and rare material.

GRADUATE DUES.

For information concerning graduate dues, consult the general rules governing graduate study, page 51.

ESTIMATE OF ANNUAL EXPENSES.

The following is an approximate estimate of the annual expenses of a student, not including outlay for clothes, traveling or other strictly personal expenses.

	MAXIMUM	MEDIUM	LOW	MINIMUM
Board and room in private families for 38 weeks at $5.00 to $4.00	$190 00	$152 00		
Board at College Home club and room in (*a*) Breckinridge Hall, (*b*) College Home	.....	.....	$116 50	$ 93 50
Tuition, payable in three installments, strictly in advance	50 00	50 00	50 00	50 00
Contingent fee, required of all	16 00	16 00	16 00	16 00
*Fuel, light, washing, per year	20 00	20 00	15 00	15 00
Books	15 00	12 00	7 50	7 50
Total	$291 00	$250 00	$205 00	$182 00

A student holding a scholarship will reduce his expenses under schedule "Low" or "Minimum," $30.00 to $70.00, according to the grade of his scholarship. See rules governing scholarships, page 103.

*Where students live in a private family, the fuel and light are included in the price of board.

SELF HELP.

Lack of pecuniary means alone need not prevent young persons of energy and persistent purpose from obtaining a college education. Many find remunerative employment for leisure hours and vacations which enables them to complete the course free from debt. It is generally true that there is work to be had about town for those who want it. It cannot usually be engaged beforehand. The Christian Association will do all it can to aid students in finding work.

There are some opportunities for service in connection with the College open to qualified students.

SCHOLARSHIPS.

Scholarships, in distinction from prizes, are designed to aid those who are chiefly dependent upon their own exertions in securing a College education. It is not expected that those whose ordinary expenses can be met by parents or through other sources will apply for beneficiary aid.

All scholarships are awarded to students who meet the following requirements:

1. Good scholarship.
2. High personal character.
3. The need of pecuniary aid.
4. Punctuality, regularity, and respect for law and order in student life.
5. Habits of economy in the use of both time and money.

There are five grades of scholarships, as follows:
$30.00, $40.00, $50.00, $60.00, $70.00 a year.

Only the lowest grade of scholarship (at the rate of $30.00 a year) is granted to new students; but subsequent awards are made strictly in accordance with the grades received for the student's work in college.

At the end of each term the scholarships are re-rated upon the basis of the student's record for scholarship during the previous term.

Students who show proficiency may be given a higher grade of scholarship. Scholarships may be reduced, or withdrawn entirely, in case of failure to maintain a proper standard of study, work or conduct.

The following additional rules govern the assignment of scholarships:

1. Applications must be made on the blank forms provided by the Committee. In the case of new students, these applications should be filed as early as possible, accompanied by the testimonials indicated in the forms. All scholarships awarded to students *before admission* are granted provisionally, and will be confirmed on the 1st of November if the student meet the five requirements above mentioned.

2. Students already holding scholarships must renew their applications for the succeeding year on or before May 15th of each year. Awards will be made in June.

3. A scholarship, having been withdrawn, may be restored after the lapse of a term, if former deficiencies are made good and no new ones incurred.

4. In awarding scholarships preference is given to regular candidates for a degree, and those who intend to finish their course in Centre College.

GRADATION OF SCHOLARSHIPS.

The system of scholarships based upon beneficiary aid will follow the grades which determine the standing of a student in College.

Beneficiary aid to the value of $30.00 will be given for grade D, but will not be given below that grade except in cases of marked faithfulness in attendance and study.

Scholarship allowance begins with grade C.

To become the recipient of a $40.00 scholarship, the beneficiary must sustain an average of grade C; for a $50.00 scholarship an average of grade B; for a $60.00 scholarship, an average of grade A; for a $70.00 scholarship, he must meet the special conditions of award assigned to honor scholarships. No student can hold both beneficiary and an honor scholarship at the same time.

LIBRARY, LABORATORIES AND MUSEUM.

The Library.

The Library, located in Sayre Hall, consists of 20,099 volumes. Some special donations, known as the Mutchmore, Roberts, Young, Beatty, Burchard, and Miller collections, have been placed in separate alcoves, and are being increased from time to time.

The Library of the original Central University, at Richmond, has been incorporated with that of the Centre College, and the entire collection is now arranged and catalogued according to the decimal system.

New Library Building.

Mr. Andrew Carnegie has recently proposed to give to Centre College $30,000 for a new library building. It is expected to commence the building at an early date. When completed it will make a beautiful and most helpful addition to the College equipment.

Laboratories.

Chemistry.

The Department of Chemistry is housed in the main building of the College. Two laboratories and three stock rooms are located on the first floor, and two laboratories and a balance room on the second floor. The equipment is of such a nature that all students of chemistry can be required to make the practical laboratory instruction an important part of each course of study.

The department is especially fortunate in possessing an excellent assortment of minerals, typical of many of the well-known ore-producing sections of the United States. The collection of rocks and rock-forming minerals came from the Massachusetts Society of Natural History; the minerals of great economic importance from the Smithsonian Institution, and those specimens illustrating the mode of occurrence of the noble metals were secured from the exhibits of Mines and Metallurgy at the World's Fair in St. Louis.

There are facilities for the study of waters from a sanitary point of view, of foods and food adulterants; likewise certain processes dealing with bacteriology.

Physics.

The one-half of the basement of the main College building is

used as a laboratory for physics. It contains a large general laboratory, a dark room for work in light, a dynamo room and a shop. The dynamo room is fitted up with a four-horsepower gas engine, alternating and direct current dynamos and motors, transformers, electric lamps and various measuring and testing instruments. The shop has lathes for wood and metal turning, a drill press, and a good supply of tools for bench work. The physics lecture room and a laboratory for advanced work are on the floor above, immediately over the laboratory rooms.

Biology.

The biological laboratories are at present located in the Gymnasium building. They are thoroughly equipped for the various biological courses. The equipment includes dissecting and compound microscopes, the latter, thirty-five in number, being of the Bausch and Lomo BB4 type, microtomes, tools and reagents. Many other instruments and pieces of apparatus are provided for demonstration and experimentation in the various courses. The equipment is all new and will be enlarged as soon as the building for biological work is ready, upon the erection of the new library building.

MUSEUM.

The Museum is well supplied with material for illustration in all branches of college work. The typical minerals are systematically arranged, so that one can see by a glance at the label where each belongs in its relations to others; the various ores, with duplicates convenient for study, are provided for critical examination.

In palæontology, fossils typical of all the epochs are on the shelves and in the work-room for special inspection. The rarer forms, such as Ichthyosaurus, Plesiosaurus, Pterodactylus, Dinosaurus, Glyptodon, and Megatherium, are represented by Ward's casts, supplied through the liberality of the late Dr. John W. Scott.

In zoology, the cases hold land, fresh-water and marine shells from all parts of the world, and considerable progress has been made in collecting specimens in other branches of this study.

In botany, the nucleus of an herbarium has been formed, and plants are being added yearly by exchange and local research.

PRIZES.

The Henry Barret Boyle Prize.

The Henry Barret Boyle Prize, established by Gen. J. T. Boyle, is annually awarded to the best Latin student of the Sophomore class, provided that the contestant's work in every other department is of a high order. The prize consists of a valuable gold watch appropriately engraved. The award is publicly made by the President on Commencement Day.

The Ormond Beatty Alumni Prize.

In 1886 the Alumni of Centre College contributed a fund of $1,000 to signalize the completion of President Beatty's fifty years' service to his alma mater. The annual interest on this fund is publicly awarded on Commencement Day to the student of the Senior class who has the best record for punctuality, deportment and scholarship. In determining this award account is taken of Senior work only.

Oratorical Prize.

An oratorical contest between the two literary societies is held annually. The prizes awarded to the successful competitors consist of two gold medals presented by the College. The date of this contest is Monday evening of Commencement week.

The Sidney J. Johnson Prize.

This prize was established by Mrs. Johnson as a memorial of her deceased husband, Sidney J. Johnson, an alumnus of Central University. The prize, a gold watch, is awarded in June to that student of the Junior class who during the year has attained the highest general average in all his studies.

Honor Scholarships.

A scholarship of $70.00 is offered to that member of each class below the Senior year who maintains the highest general average in scholarship in the regular studies of his class and whose deportment and punctuality are correspondingly worthy. The winners of these scholarships will be announced at Commencement and the scholarship will be available during the next session.

The William Ernst Prize.

This prize has been offered by the Hon. Richard P. Ernst, of Covington, as a memorial of his father, Mr. William Ernst. The gift, amounting to $75.00, is awarded in three prizes of $25.00 each to the three ranking men in the Inter-Society Debate.

BEQUESTS.

Friends of the College desiring to make provision for legacies are invited to communicate with the President. The legal forms are given below:

THE CORPORATE NAME.

The corporate name of this institution is, "Central University of Kentucky."

FORM OF BEQUEST.

"I give and bequeath to Central University of Kentucky, for the sole use and benefit of The Centre College of Kentucky, located at Danville, in the State of Kentucky—said Centre College being the academical department of said Central University —the following"—(here describe the thing or property given.)

If the donor or testator desire that the money, stock, or property shall be devoted to a particular professorship, department, scholarship or medal, etc., he will, after describing the property or thing given as indicated above, add the following:

"To be held in trust and used by said CENTRAL UNIVERSITY OF KENTUCKY *under the control and direction of the Board of Trustees thereof, for"* (here describe the particular use desired to be made of the fund, or its annual interest).

ADMINISTRATION.

The general principles of the College government are embraced in the following statement:

Since the sole aim of the Trustees in framing the College laws and regulations, and that of the Faculty in administering them, is to secure the best interests of the students, it is confidently expected that everyone will yield a cheerful obedience to them. The government of the College is intended to be mild, granting to each student all privileges and enjoyments consistent with his own welfare and that of his associates; at the same time it must be firm, enforcing obedience to all the restraints and restrictions which the Trustees or the Faculty shall deem it their duty to enjoin. If any offend against the rules, their reformation will be strictly aimed at so far as practicable, and no severe or humiliating penalty will be inflicted, except when the paramount interests of the institution demand it. The students are treated as gentlemen and are expected to conduct themselves as such.

The general rules of the College are formulated in the Handbook of College Legislation, and all students are expected to be familiar with the contents of this book.

HONOR SYSTEM.

By a practically unanimous vote, the student body, in October, 1906, adopted the Honor System in examinations. Under this system, administered by the students themselves, there is no watching by any officer of the College during examinations, but each student is required to write on his paper a pledge that he has neither given nor received help in connection with the examination.

PRIZEMEN, 1905-1906.

THE HENRY BARRET BOYLE LATIN PRIZE.

Richard Harrison Hill, New Castle.

THE ORMOND BEATTY ALUMNI PRIZE.

John Leslie Purdom, Forkland.

THE SIDNEY J. JOHNSON PRIZE.

Llewellyn Crenshaw, Dermott, Ark.

HONOR SCHOLARSHIPS.

Junior Class: Llewellyn Crenshaw, Dermott, Ark.

Sophomore Class: Richard Harrison Hill, New Castle.

Freshman Class: Lawrence Inglis McQueen, Shelbyville, Tenn.

ORATORICAL CONTEST PRIZE.

First Prize: Charles Whitner Milner, Louisville.

Second Prize: Ernest Owsley Grant, Louisville.

VALEDICTORIAN.

John Leslie Purdom, Forkland.

DEGREES CONFERRED, JUNE, 1906.

Degrees in Course.

BACHELOR OF ARTS.

Willoughby Francis Colton, Ford Wick, Va.
Clay Hughes Cox, Junction City.
John Crawford Crenshaw, Dermott, Ark.
Thomas Nichols Faulconer, Danville.
Jay Wellington Harlan, Danville.
William Hall Hawkins, Midway.
Walter Owsley Hopper, Stanford.
Donald Windsor McQueen, Shelbyville, Tenn.
John Leslie Purdom, Forkland.
Clifton Rodes, Danville.

BACHELOR OF SCIENCE.

Harry Graham Bright, Danville.
Milton Myles Davis, Midway.
Frank Flaig, Danville.
Gerald Fenelon Hager, Ashland.

MASTER OF ARTS.

Thomas Armstrong Hendricks, B. S., Versailles.
John William Phelps, A. B., D. O., Atlanta, Ga.
Thomas Albright Stewart, B. S., Wildie.

Honorary Degrees.

DOCTOR OF DIVINITY.

Robert O. Kirkwood, Cincinnati, Ohio.
J. Gray McAlister, Hampden Sidney, Va.

DOCTOR OF LAWS.

William K. Argo, Colorado Springs, Col.
Allen G. Hall, Nashville, Tenn.

STUDENTS IN THE CENTRE COLLEGE.

GRADUATE STUDENTS

Flaig, Frank,	Danville, Ky.
Purdom, John Leslie,	Forkland, Ky.

UNDERGRADUATE STUDENTS

Senior Class

Alexander, Percy McGee,	Campbellsville, Ky.
Brennan, Napoleon Bruce,	Louisville, Ky.
Brown, Joseph Baily,	Taylorville, Ky.
Cheek, Logan McKee,	Danville, Ky.
Cheek, James Clinton,	Fulton, Ky.
Cofer, David Brooks,	Elizabethtown, Ky.
Crenshaw, James Llewellyn,	Dermott, Ark.
Darnall, John Palmer,	Flemingsburg, Ky.
Dean, John Allen,	Owensboro, Ky.
Dick, Albert Conrad,	Louisville, Ky.
Dosker, Nicholas Hermann,	Louisville, Ky.
English, Logan Berry,	Cecilian, Ky.
Epperson, Erle Russell,	Louisville, Ky.
Green, Ernest Lorraine,	Shelbyville, Ky.
Griffith, William King,	Paris, Ky.
Hudson, Harry Summers,	Ewing, Ky.
Lanier, Thomas Stratton,	Danville, Ky.
Lee, Edmund Shackelford,	Covington, Ky.
Milner, Charles Whitner,	Louisville, Ky.
O'Neal, Emmet,	Louisville, Ky.
Ray, Rutherford Harrison,	Owensboro, Ky.
Rodes, Nelson Davis,	Danville, Ky.
Starling, William Lyne,	Hopkinsville, Ky.
Voris, Edward Franklin,	Burgin, Ky.

Junior Class.

Bass, Albert Leonard,	Campbellsville, Ky.
Boyd, Harry Burton,	Columbus, Ga.
Cecil, John Russell,	Harrodsburg, Ky.
Crawford, John Oliver,	Athol, Ky.

Crockett, Henry Lander,	Carlisle, Ky.
Enoch, William,	Mt. Sterling, Ky.
Glass, Fred Akin,	Booneville, Ky.
Grant, Ernest Owsley,	Louisville, Ky.
Harbison, Robert Brewster,	Danville, Ky.
Hay, Charles Kincaid,	Perryville, Ky.
Hobbs, Thomas Herbert,	Bardwell, Ky.
Hopper, William Higgins,	Stanford, Ky.
Hume, Edgar E.,	Frankfort, Ky.
Lassing, Coleman Hamilton,	Union, Ky.
McChord, Robert Caldwell,	Lebanon, Ky.
McConnell, Bruning,	Ashland, Ky.
Morris, George Woodson,	Fulton, Ky.
Morton, Elliott Russell,	Morganfield, Ky.
Myers, Robert Lee,	Leavenworth, Kansas
Offutt, Frank Bell,	Bloomfield, Ky.
Stuart, Winchester,	Owensboro, Ky.
Wadsworth, William Henry,	Maysville, Ky.
Wakefield, John J.,	Bloomfield, Ky.
Warner, Howard Stuart,	Vicksburg, Miss.
Watkins, Thomas Graham,	Danville, Ky.
Wood, James Craddock,	Munfordville, Ky.

SOPHOMORE CLASS.

Alexander, Maurice Mitchell,	Campbellsville, Ky.
Alley, George Louis,	Fulton, Ky.
Andrews, Newton Steele,	Birmingham, Ala.
Cassiday, Hugh,	Elizabethtown, Ky.
Cave, Henry Wisdom,	Paducah, Ky.
Chaney, James Hoyt,	Woodburn, Ky.
Collins, Gyfford Davidson,	Nashville, Tenn.
Durham, Milton Mitchell,	Danville, Ky.
Gardner, Forrest Briscoe,	Eustis, Fla.
Gray, Eugene Frederick,	Louisville, Ky.
Hess, Fredrick Ireland Shannon,	Louisville, Ky.
Lee, Dewitt Collins,	Covington, Ky.
Lee, George Francis,	Danville, Ky.
Lee, Madison Johnson,	Danville, Ky.
Lucas, Luke Broadhead,	Spring Station, Ky.
McChord, John Hyne,	Springfield, Ky.
McCormack, Lem Huston,	Waddy, Ky.

McCulloch, William Keith,	Owensboro, Ky.
McCulloch, Jean Weir,	Owensboro, Ky.
McQueen, Lawrence Inglis,	Shelbyville, Tenn.
Miller, Sam Huston,	Richmond, Ky.
Montgomery, Bradley Bennett,	Cartersville, Ky.
Raworth, Malcolm Dunbar,	Vicksburg, Miss.
Richardson, Robert Gibson,	Somerset, Ky.
Sachs, Benjamin H.,	Louisville, Ky.
St. Clair, Henry Shelton,	Louisville, Ky.
Voris, Hugh Allen,	Burgin, Ky.
Wallingford, John Walker,	Mt. Carmel, Ky.
Watkins, Shelton Hughes,	Owensboro, Ky.
Wingate, Albert Daniel,	Danville, Ky.

FRESHMAN CLASS.

Alexander, Henry Theodore,	Fulton, Ky.
Andrews, Robert D.,	Memphis, Tenn.
Ardery, William Breckinridge,	Paris, Ky.
Armstrong, James Mitchell,	Alexandria, La.
Bach, Grannis,	Jackson, Ky.
Barclay, Douglas,	Louisville, Ky.
Bean, James H.,	Danville, Ky.
Bethel, James Worthington,	Danville, Ky.
Boulware, Maurice Donaldson,	Shelbyville, Ky.
Brodie, John Gilmour,	Owensboro, Ky.
Cecil, Granville Welsh,	Danville, Ky.
Crabb, Cecil Van Meter,	Eminence, Ky.
Diederich, John Thomas,	Ashland, Ky.
Ebbert, Sprigg Case,	Covington, Ky.
Enwright, George D.,	Covington, Ky.
Faulconer, Elijah Potter,	Danville, Ky.
Field, James Thomas,	Ashland, Ky.
Frierson, James Croseland,	Paint Lick, Ky.
Gilcher, Frank Nuetzel,	Danville, Ky.
Gray, Dudley Dye,	Latonia, Ky.
Hager, Lawrence White,	Frankfort, Ky.
Harper, Lucas Kruse,	Denver, Colo.
Haynes, James Miller,	Morganfield, Ky.
Hendrie, Joe Munier,	Central City, Ky.
Herrington, Herschel S.,	Atlanta, Ga.
Hoge, Peyton Harrison,	Louisville, Ky.

Hopkins, Walter Alvis,	Wickliffe, Ky.
Hudson, Shirley,	Lancaster, Ky.
Hundley, Guy L.,	Danville, Ky.
Johnson, Howard Clifford,	Latonia, Ky.
Lanier, Ray S.,	Danville, Ky.
Lanier, Addison,	Danville, Ky.
Lanier, Isaac,	Danville, Ky.
Lawrence, Joseph,	Shelbyville, Ky.
Lee, David Rowland,	Danville, Ky.
Long, Herschel Allen,	Hopkinsville, Ky.
Lynn, John D.,	Madisonville, Ky.
McConnell, Edward Ford,	Danville, Ky.
McElroy, John Shuck,	Springfield, Ky.
Nourse, James Bartrim,	Hopkinsville, Ky.
Ogg, James Brooks,	Mt. Sterling, Ky.
Phillips, R. Montague,	Louisville, Ky.
Purdom, Thomas Luther,	Forkland, Ky.
Ray, James Crabb,	Shelbyville, Ky.
Rees, William Clarke,	Mayslick, Ky.
Robertson, Posey Wesley,	Morganfield, Ky.
Rose, Samuel J.,	Marcellus, Ky.
Shockency, William Irvine,	Pleasureville, Ky.
Waddle, Benjamin Lee,	Somerset, Ky.
Wallace, Guy,	Benton, Ky.
Ware, Carl Victor,	Pine Bluff, Ark.
Webber, Thomas Edward,	Texarkana, Ark.
Williams, Richard Gott,	Somerset, Ky.
Wilson, Fletcher,	Shelbyville, Ky.
Wittle, William,	Denver, Colo.
Woodford, William,	Paris, Ky.

SPECIAL STUDENTS.

Arnold, Calvin Garnett,	Versailles, Ky.
Bird, Harry Irvine,	Shelbyville, Ky.
Brown, Robert Carrick,	Shelbyville, Ky.
Caldwell, William Perkins,	Danville, Ky.
Crittenden, John Allen,	Greenville, Miss.
Duncan, John Proctor,	Danville, Ky.
George, Rob Roy,	Danville, Ky.
Guthrie, Robert Rivers,	Paducah, Ky.
Hamman, Wilbur Alfred,	Cloverport, Ky.

Jones, Stephen Arnold D.,	Cannon, Ky.
Lewis, Joseph Carey,	Bagdad, Ky.
Pogue, Robert Bedford,	Mayslick, Ky.
Reid, John Owsley,	Stanford, Ky.
Rowell, Willie Daniel,	Pine Bluff, Ark.
Trent, Charles Stanley,	Lawrenceburg, Ky.

NECROLOGY.

CENTRE COLLEGE.

1845. Thomas Woolridge Brown, A. B. July 18, 1906.
1851. William Noel Shelton. October 30, 1906.
1855. Given Campbell. November 20, 1906.
1856. Edgar Forsythe Newman, A. B. 1905.
1857. Enos Stevens Swain, A. B. May 29, 1906.
Robert Glass Vance, A. B. October 30, 1906.
1858. Joseph Addison McKibben. June 19, 1906.
1859. William Henry, A. B. May 25, 1906.
1862. Samuel Grundy McElroy. September 6, 1906.
1863. John Levi Cleveland, A. B. March 18, 1906.
1865. Joseph Addison Cohen. August 26, 1906.
Legh Walker Robertson, A. B. May 13, 1906.
1869. Cabell Chenault Huguely. October 8, 1906.
1875. John (Clinton) Barret, A. B. November 22, 1906.
William Logan Caldwell. November 12, 1906.
James Weir, Jr. August 9, 1906.
1878. Charles Euston Kincaid, A. B. November 2, 1906.
1888. William Wallace Bruce. November 9, 1906.
1894. Charles Webb Frisbie. September 8, 1906.
1899. John Templeman Grinstead. December 21, 1906.
Robert Leslie Hudson. August 4, 1906.
1903. Frank Collier Harbison. July 4, 1906.

CENTRAL UNIVERSITY

1888. Richard White Miller, A. B. July 29, 1906.
1899. Thomas Malcom Bigger. September 29, 1906.
1901. Thomas Lowe Moselery. March 7, 1906.

THE COLLEGE OF LAW

THE COLLEGE OF LAW.

CALENDAR.

1907.

January 2—Wednesday—Winter term begins.
March 15—Friday—Winter term ends.
March 18—Monday—Spring term begins.
June 7—Friday—Final examinations end.
June 12—Wednesday—Annual Commencement.

SUMMER VACATION, JUNE 13—SEPT. 10.

September 11—Wednesday—Fall term begins.
November 28—Thursday } Thanksgiving Holiday.
November 29—Friday }
December 20—Friday—Fall term ends.

CHRISTMAS VACATION, DEC. 21, 1907—JAN. 5, 1908.

1908.

January 6—Monday—Winter term begins.
February 22—Saturday—Washington's Birthday.
March 13—Friday—Winter term ends.
March 16—Monday—Spring term begins.
June 5—Friday—Final examinations end.
June 10—Wednesday—Annual Commencement.

OFFICERS OF ADMINISTRATION.

FREDERICK WILLIAM HINITT, PH. D., D. D.
President of the University.

LINDSAY HUGHES BLANTON, D. D., LL. D.,
Vice President of the University.

ARCHIBALD HALL THROCKMORTON, A. M., LL. B.
Dean of the College of Law.

FACULTY.

ARCHIBALD HALL THROCKMORTON, A. M., LL. B.
Professor of Constitutional Law and the Law of Property and Contracts.

CHARLES HENRY RODES, A. B., LL. B.,
Professor of Equity and Corporation Law.

WILLIAM JENNINGS PRICE, A. M., LL. B.,
Professor of Criminal Law and Procedure and the Law of Evidence.

HENRY JACKSON, A. B., LL. B.,
Professor of Pleading and Practice.

HON. MICHAEL C. SAUFLEY,
Lecturer on Federal Procedure.

HON. JAMES DENTON,
Lecturer on Appellate Practice.

HON. W. CONN BELL,
Lecturer on Examination of Land Titles.

WILLIAM HENRY ROBERTS, A. B., LL. B.,
Assistant in Practice.

WILLIAM LANDSAW KASH,
Librarian.

HISTORY.

In the separate growth and development of the Centre College and the Central University, the need was felt in each for a Department of Law, in which especially the graduates of the Academic Departments might pursue their studies until equipped for the bar.

Such a department was early established at the Central University at Richmond, but after several years, the professors who were also practicing attorneys, moved away, and the Law School was suspended. In the fall of 1898, it was reorganized under more favorable auspices, with the veteran law teacher, Hon. William Chenault, as Dean, and Mr. Richard White Miller as Associate Professor, and these two gentlemen conducted the school until its removal to Danville.

The Danville Law School was established in 1894. Through the efforts of President William C. Young, Ex-Governor J. Proctor Knott was induced to give up his practice at Frankfort and come to Danville, where, as Dean of the Law School, he devoted his entire time for the next seven years to the work of instruction. Associated with Ex-Governor Knott were Hon. Robert P. Jacobs and Hon. John W. Yerkes, whose lectures, like those of Ex-Governor Knott, were eagerly sought by the students. When several years later, Mr. Jacobs and Mr. Yerkes, owing to the pressure of other work, gave up their positions in the School, they were succeeded by Hon. Robert T. Quisenberry and Hon. Charles H. Rodes. Ex-Governor Knott remained at the head of the School until June, 1901, when, on account of failing health he resigned and retired from active work.

At the same time, the consolidation of the Centre College and the Central University was effected, and the Law Department of the consolidated institution was established at Danville under the name of the College of Law of Central University. Hon. Thomas P. Hill, of Stanford, was elected temporary Dean, and, with Mr. Rodes and Mr. Arthur C. VanWinkle, carried on the work of instruction during the session of 1901-2. In June, 1902, the present Dean was elected, under whom and his associates the School was reorganized, new quarters were obtained, and the course much extended.

Since then, owing largely to the generous gifts of Mrs. Robert P. Jacobs, the equipment of the school has been greatly improved, and the library especially has been enlarged. The attendance has grown, and the prospects of the school are are brighter than ever for increased patronage and usefulness.

Admission.

No examinations are required for admission to the Law School, but each student must be able to satisfy the Dean that he is prepared to undertake the work of the school. It is strongly recommended that the student first take a complete College course, or at least graduate from the High School; if the candidate for admission is found deficient, the privilege is reserved of requiring him to take certain studies in the departments of English, History, and Political Science in the Centre College.

Studies in the Centre College.

Students matriculating in the Law School have the privilege of attending, free of charge, any lectures and recitations in the Centre College. Abundant opportunity is thus afforded the student to make up any deficiency in his earlier education and to fit himself for intellectual leadership in active life. It is especially recommended that students who have not had a college education take at least one course each term in English or American History, Political Science, Economics, or Literature, as they may have opportunity.

Admission to Advanced Standing.

Private study or work done in other Law Schools is no longer accepted in lieu of similar courses in the Law School. Such students, however, as present certificates from other law schools of approved standing, that they have completed certain courses, will be excused from attendance upon these courses; but in no case will the student be excused from taking the regular examinations with the remainder of the class.

Special Students.

Students are strongly advised to take the regular course prescribed for candidates for a degree, but upon assigning satisfactory reasons, they may be given special permission to take an elective course. In this way, students are afforded opportunity

to devote special attention to those subjects required for admission to the bar in their respective states.

By recent act of the Kentucky Legislature, all candidates for admission to the bar hereafter in this state, must pass an examination before the Circuit Court of a district in which the applicant does not reside, in the following subjects:

The common law; equity jurisprudence; constitutional law, federal and state; criminal law; real property; contracts; pleading; evidence; negotiable instruments; torts; corporations, public and private.

COURSE OF STUDY.

The curriculum is arranged for a course of two years of nine months each, those taking the first year's work being known as Juniors and the second year as Seniors. The work of each session is divided into three terms, ending respectively at Christmas, the Friday nearest the middle of March, and Commencement. After a subject is taken up, recitations are held upon it daily until it is completed, and it is believed that by thus concentrating the student's attention, better results are obtained than by instruction in a number of subjects concurrently, with recitations at longer intervals. The studies during the first year consist chiefly of substantive law, while the greater part of the second year is devoted to procedure and its kindred branches. The work is further so arranged that it can be begun with any term, and hitherto, some of the most successful students have been those entering after the Christmas holidays. It is strongly urged, however, that wherever possible, the student should enter promptly at the beginning of the Fall term.

The method of instruction pursued is by means of text-books, lectures and illustrative cases, coupled with a daily quiz on the topic assigned. It is confidently believed that in this way the best results are achieved. It is believed that the student should have in his hands for careful study at least a brief text in which the general principles of the subject are developed, and that these principles should then be illustrated by the reading of selected cases, the whole being accompanied by a searching quiz on the part of the professor as a test of the student's accuracy, and by further oral exposition and discussion. The aim throughout is to develop the scientific principles underlying the law and its application in specific instances. At the end of each term final examinations are held on all the work covered during the term, and the last month during the Senior year is devoted to a general review of the whole course, with special reference to preparation of the graduates for admission to the bar.

An outline of the course of instruction is given below:

JUNIOR YEAR.

(1) Elementary Law—Professor Throckmorton.

This course serves as a general introduction to the study of

law, and consists of lectures on the various systems of law, the common law in its application to modern American law, the sources of modern municipal law, and an analysis of the whole field of law. The student is required to read portions of *Blackstone's* and *Kent's Commentaries* and certain illustrative cases.

(2) Contracts—Professor Throckmorton.

Clark on Contracts, (second edition), *Hopkins's Cases on Contracts,* the Professor's notes.

(3) Agency—Professor Throckmorton.

This course includes not only the subject of principal and agent, but also that of master and servant.

Huffcut on Agency, (second edition). Selected cases.

(4) Real Property, Wills and Administration—Professor Throckmorton.

Tiedeman on Real Property (third edition), *Gates's Cases on Real Property,* Lectures and the Professor's notes.

(5) Constitutional Law, Federal and State—Professor Throckmorton.

Cooley's Principles of Constitutional Law (third edition), *Smith's Cases on Constitutional Law.*

(6) Domestic Relations—Professor Throckmorton.

Long on Domestic Relations, Woodruff's Cases on Domestic Relations.

(7) Personal Property—Professor Throckmorton.

Instruction is given on the subjects of title by occupancy and title by gifts by means of lectures and illustrative cases. Instruction in the more important subject of sales is based on a text-book.

Benjamin's Principles of Sales, Benjamin's Cases on Sales.

(8) Bailments and Carriers—Professor Throckmorton.

Lawson on Bailments, Selected cases.

(9) Negotiable Instruments — Professor Throckmorton.

Tiedeman on Bills, Notes and Checks, with cases.

(10) Brief Making—Professor Throckmorton.

This course runs throughout the year and includes such subjects as American law publications, how to find the law, how to use decisions and statutes, and the brief on appeal. Each student is required to prepare an average of one brief each month during the session.

Abbott's Brief-Making and the Use of Law Books.

SENIOR YEAR.

(1) Common Law Pleading—Professor Jackson.

Shipman's Common Law Pleading. Lectures and the Professor's notes.

(2) Code Pleading and Practice—Professor Jackson.

Bliss on Code Pleading, Selected Cases, and the Professor's notes.

(3) Equity Jurisprudence—Professor Rodes.

Eaton on Equity, Lectures and the Professor's notes.

(4) Corporations—Professor Rodes.

Clark on Corporations. Lectures and Selected Cases.

(5) Insurance—Professor Jackson.

This course covers the essential principles of fire, life and marine insurance.

Elliott on Insurance, Elliott's Cases on Insurance.

(6) Partnership—Professor Price.

Mechem's Elements of Partnership. Selected Cases.

(7) Evidence—Professor Price.

Greenleaf on Evidence, Vol. I (16th edition). Selected Cases.

(8) Criminal Law and Procedure—Professor Price.

Clark's Criminal Law, Beale's Criminal Pleading and Practice.

(9) Torts—Professor Rodes.

Burdick on Torts, Burdick's Cases on Torts.

(10) Special Lectures by Judge Denton, Judge Saufley and Judge Bell on Appellate Practice, Federal Procedure and Examination of Land Titles.

Scheme of Lectures.

	JUNIORS.	SENIORS.
FIRST TERM.	The Common Law. Contracts. Agency. Use of Law Books.	Common Law Pleading. Corporations. Criminal Law and Procedure Examination of Land Titles.
SECOND TERM.	Real Property. Domestic Relations. Personal Property. Brief Making.	Code Pleading. Appellate Practice. Equity Jurisprudence. Partnership.
THIRD TERM.	Constitutional Law. Bailments and Carriers. Negotiable Instruments.	Evidence. Torts. Federal Procedure. Insurance.

Law Debating Society.

The J. Proctor Knott Law Debating Society meets fortnightly throughout the Fall term, and affords the student opportunity from the very beginning of his course for the oral discussion and application of the principles of law. The society is conducted by the students themselves, but the questions for debate are furnished by the professors, at least one of whom is present at every meeting, and is expected, at the close of the discussion, to give his opinion upon the points under discussion.

Moot Court.

In connection with the regular courses in Pleading and Practice, the students are constantly required to draw all kinds of pleadings, which are examined and criticised by the professor in presence of the class. The class in Real Property is also utilized as a school of conveyancing, in which the students are required to prepare deeds, wills, contracts, leases, etc. Early in January the Moot Court is organized, and thereafter meets once a week until the end of the session. Here the students are given valuable practice in pleading and procedure under both the common law and code systems, embracing also criminal procedure and procedure in the courts of equity.

Law Library.

The Law Library consists of a valuable collection of Encyclopedias, Text Books, Reports and Digests, and is located in the large and comfortable room immediately over the recitation hall.

In March, 1903, the Library was greatly enlarged through the generous gift of Mrs. Robert P. Jacobs of the law library of her husband, the late Hon. Robert P. Jacobs, as a memorial of Mr. Jacobs' former connection with the Law School and of his abiding interest in its welfare. Since then further valuable donations to the Library have been made by Mrs. Jacobs, Mr. Frank Flaig, The Courier-Journal Job Printing Company, Hon. John D. Carroll, and Mr. Charles F. Beach, Jr.

The Library is under the supervision of a competent librarian, and is open all day. Students are encouraged to make free use of it in connection with their daily recitations, and more especially in preparing briefs, and in the work of the law debating society and the moot court.

The Library is supplied with a typewriter of standard make, free use of which may be had by paying the small fee of three dollars for the year.

Law School Building.

The south wing of the Old College building has been set apart for the use of the Law School. The large recitation hall on the first floor has been handsomely fitted up with new individual desks with writing arms attached, while the library in the room on the second floor is accessible at all times both from the recitation room and the outside.

Examinations and Degree.

A grade of seventy-five per cent is required as a passing mark in all studies, and upon the successful completion of the regular class work, and that of the moot court and other assigned work, the degree of LL. B. is conferred upon the student.

Honors and Prizes.

1. FACULTY PRIZE—To that member of the Junior class who attains the highest general average of proficiency during the session, is annually awarded a copy of Black's Law Dictionary.

2. THE JACOBS PRIZE—This prize has been established by Mrs. Robert P. Jacobs as a memorial to her late husband, Hon. Robert P. Jacobs, a former Professor in the Law School. It consists of $25.00 in law books to be awarded annually to that member of the Senior class who attains the highest general average in the work of that year.

3. LAW SCHOOL ORATION—One member of the graduating class is selected each year by the Faculty to deliver an oration, known as the Law School Oration, on Commencement Day.

EXPENSES.

The tuition fee in the Law School is $75 for the session, half of which is payable upon matriculation, and the remainder February 1. For students attending the full course of lectures in both the Junior and Senior classes, the tuition fee is $100. Students matriculating after the opening of the session will be charged in proportion. A contingent fee of $3 per session is charged to cover use of the Library and typewriter and damage to property. A further fee of $7 is charged upon graduation to cover cost of diploma and commencement expenses.

The cost of books will vary. If all are bought new, the total cost of those used in the entire two years' course will be about $60. Students are advised to wait until they reach Danville before purchasing their books, as special arrangements are made by which they are furnished through the Librarian at reduced prices.

Good board may be had in private homes in Danville at from $3.50 to $5.00 per week, or by rooming in Breckinridge Hall or the College Home, these expenses may be reduced to from $2 to $2.50 per week.

For further particulars in regard to the expense of living at the University, see page 101. It is believed that owing to the connection of the Law School with the University, an opportunity is afforded the law students for comfortable living at very moderate expense, quite unusual with professional students.

For further information, apply to

A. H. THROCKMORTON, *Dean,*
Danville, Ky.

DEGREES CONFERRED, JUNE, 1906.

Alexander, William Barkley .....Pine Bluff, Ark.
(A. B., Centre College.)

Andrews, Francis West .....Memphis, Tenn.
(A. B., Centre College.)

Batterton, George Boswell .....Paris
Creal, Edward Wester .....Hodgenville
Miller, John G., Jr.....Paducah
Singleton, Mit Silas .....Somerset
Stewart, Thomas Albright .....Wildie
(B. S., Centre College.)

Tabb, Hugh B.....Stephensburg

FACULTY PRIZE.

William Landsaw Kash.....Landsaw.

JACOBS PRIZE.

Hugh B. Tabb.....Stephensburg.

LAW SCHOOL ORATOR.

Hugh B. Tabb .....Stephensburg.

STUDENTS IN THE COLLEGE OF LAW.

Senior Class.

Bennett, Trice ..... Marion
Dean, John Allen, Jr.....Owensboro
Eversole, John Boyd.....Hazard
Kash, William Landsaw.....Landsaw
Robinson, Maury.....Charleston, W. Va.
Taylor, Edmund Haynes, Jr.....Frankfort
Triplett, George Vest, Jr.....Owensboro

Junior Class.

Caldwell, Robert Tate.....Burdick
(A. B., Centre College.)
Davidson, Archibald Ulrich.....Marion
Forsyth, Harry Virgil.....Pikeville
Griffith, William King.....Paris
Harlan, Jay Wellington.....Danville
(A. B., Centre College.)
Johnston, Meredith Armistead.....New York, N. Y.
Owsley, Estel Edward.....Middlesboro
Pierce, Charles Orrin.....Butte, Mont.
Terrell, Robert Marshall.....Blandville

Summary of Attendance.

Seniors	7
Juniors	9
Total	16

HOSPITAL COLLEGE
OF MEDICINE

HOSPITAL COLLEGE OF MEDICINE, LOUISVILLE, KENTUCKY.

College Calendar, 1907.

January 1—Regular Session begins.

February 22—Washington's Birthday (holiday.)

July 25 to 30—Examinations for Degree.

July 29—Meeting of Alumni Association.

August 1—Commencement.

Note—Dates of examinations and commencement subject to change.

OFFICERS OF ADMINISTRATION AND INSTRUCTION.

FREDERICK WILLIAM HINITT, Ph. D., D. D., *President of the University.*

LINDSAY HUGHES BLANTON, D. D., LL. D., *Vice President of the University.*

LEWIS S. MCMURTRY, A. M., M. D., *President.*

THOMAS HUNT STUCKY, A. M., M. D., *Vice President.*

P. RICHARD TAYLOR, M. D., *Dean.*

PHILIP F. BARBOUR, A. M., M. D., *Secretary.*

H. HORACE GRANT, A. M., M. D., *Treasurer.*

FACULTY.

LEWIS S. MCMURTRY, A. M., M. D., *President.*
Professor of Gynecology and Abdominal Surgery. 1912 Sixth Street.

FRANK C. WILSON, A. B., M. D.,
Professor of Diseases of the Chest and Physical Diagnosis. 405 West Chestnut Street.

SAMUEL G. DABNEY, M. D.,
Professor of Physiology and Ophthalmology, and Clinical Professor of Otology and Laryngology. 216 West Chestnut Street.

THOMAS HUNT STUCKY, A. M., M. D., *Vice President,*
Professor of Principles and Practice of Medicine and Clinical Medicine. 124 West Chestnut Street.

JOHN EDWIN HAYS, A. M., M. D.,
Professor of Descriptive and Surgical Anatomy, Dermatology, and Syphilography. Hast Building.

H. HORACE GRANT, A. M., M. D., *Treasurer,*
Professor of Surgery and Clinical Surgery. Warren Building.

P. RICHARD TAYLOR, M. D., *Dean.*
Professor of Materia Medica, Therapeutics, Otology and Laryngology, and Clinical Professor of Ophthalmology. 129 West Chestnut Street.

PHILIP F. BARBOUR, A. M., M. D., *Secretary,*
Professor of Diseases of Children and Organic Chemistry. Hast Building.

EDWARD SPEIDEL, M. D.,
Professor of Obstetrics and Diseases of Women. 713 Second Street.

GEORGE A. HENDON, M. D.,
Professor of Principles and Practice of Surgery and Surgical Pathology. 1826 Baxter Avenue.

E. DUFF BURNETT, M. D.,
Professor of Diseases of the Nervous System and Medical Jurisprudence.

JAMES VANCE, M. D.,
Professor of Bacteriology and Hygiene and Assistant to the Chair of Gynecology and Abdominal Surgery.

E. LEE HEFLIN, M. D.,
Professor of Genito-Urinary Surgery.

WALTER F. BOGGESS, A. M., M. D.,
Professor of the Practice of Medicine and Physical Diagnosis.

DANIEL P. YOUNG, LL. B.,
Professor of Medical Jurisprudence.

E. O. WITHERSPOON, M. D.,
Professor of Inorganic Chemistry and Demonstrator of Chemistry.

W. T. MCKINNEY, M. D.,
Professor of Materia Medica, Demonstrator of Histology and Pathology.

RICHARD T. YOE, M. D.,
Adjunct Professor of Diseases of the Chest and Physical Diagnosis.

SAMUEL P. MEYER, A. B., M. D.,
Adjunct Professor of Physiology and Chief of Otological and Laryngological Clinic.

H. A. DAVIDSON, A. M., M. D.,
Professor of Physiology and Embryology.

OSCAR W. DOYLE, M. D.,
Adjunct Professor of Theory, Practice of Medicine, and Clinical Medicine.

H. T. LIGGETT, M. D.,
Assistant to the Chair of Embryology and Physiology.

EDWIN T. BRUCE, M. D.,
Assistant to the Chair of Obstetrics and Diseases of Women.

J. F. DUSCH, Ph. G., M. D.,
Lecturer on Pharmacy.

S. A. THOMPSON, M. D.,
Assistant to the Chair of Obstetrics and Diseases of Women.

J. HANCOCK, M. D.,
Assistant to Surgical Clinic.

B. A. ALLAN, M. D.,
Assistant to the Chair of Obstetrics.

R. FISCHER, M. D.,
Chief of the Pediatric Clinic.

G. B. BREIDENTHAL, M. D.,
Assistant to the Chair of Obstetrics and Diseases of Women.

HENRY E. PELLE, M. D.,
Assistant to the Chair of Surgery.

JOHN W. KREMER, M. D.,
Assistant to the Chair of Surgery.

EDWARD O. SAGE, M. D.,
Anesthetist to Surgical Clinic.

H. W. HEUSER, M. D.,
Assistant to the Chair of Otology and Laryngology.

JOHN H. WARD, M. D.,
Assitant to the Chair of Anatomy and Practice of Medicine.

G. S. HANES, M. D.,
Assistant to the Chair of Surgery.

WILLIAM F. STUCKY, M. D.,
Assistant to the Chair of Diseases of Children.

S. F. WILSON, M. D.,
Assistant to the Chair of Obstetrics and Diseases of Women.

F. L. WILHOIT, M. D.,
Assistant to the Chair of Diseases of Children.

FRANK J. KIEFER, M. D.,
Assistant to the Chair of Materia Medica and Therapeutics.

CARL GRANT, M. D.,
Assistant to the Chair of Anatomy.

HUGH R. MANNING, M. D.,
Assistant to the Chair of Theory and Practice of Medicine and Clinical Medicine and Chief of the Medical Clinic.

R. C. H. RADEMAKER, M. D.,
Clinical Assistant to the Chair of Diseases of Children.

Staff of Gray Street Presbyterian Infirmary.

H. HORACE GRANT, M. D.....Surgery
THOMAS HUNT STUCKY, M. D.....Medicine
LEWIS S. MCMURTRY, M. D.....Gynecology
FRANK C. WILSON, M. D.....Diseases of the Chest
SAMUEL G. DABNEY, M. D.,..Diseases of Eye, Ear, Nose, Throat
JOHN EDWIN HAYS, M. D.....Diseases of the Skin
PHILIP F. BARBOUR, M. D..... Diseases of Children
P. RICHARD TAYLOR, M. D.....Diseases of the Eye
GEORGE A. HENDON, M. D.....Surgery
JAMES VANCE, M. D.....Pathologist
EDWARD SPEIDEL, M. D.....Diseases of Women and Obstetrics
E. LEE HEFLIN, M. D.....Genito-Urinary Diseases

Clinical Assistants in Infirmary and Dispensary.

E. DUFF BURNETT, M. D.....Clinical Neurology
RICHARD T. YOE, M. D.....Diseases of the Chest
E. O. SAGE, M. D.....Anesthetist
RICHARD FISCHER, M. D.....Diseases of Children
JOHN W. KREMER, M. D.....Clinical Surgery

Staff of City Hospital.

PHILIP F. BARBOUR, M. D.....Clinical Medicine
H. HORACE GRANT, M. D.....Clinical Surgery
WALTER F. BOGGESS, M. D.....Clinical Medicine
P. RICHARD TAYLOR, M. D...Ophthalmology, Otology, ... and Laryngology
E. LEE HEFLIN, M. D.....Genito-Urinary Diseases
LEWIS S. MCMURTRY, M. D.....Gynecology
JOHN E. HAYS, M. D.....Dermatology
SAMUEL G. DABNEY, M. D...Ophthalmology, Otology, ... and Laryngology
JOHN J. MOREN, M. D.....Neurology
EDWARD SPEIDEL, M. D.....Obstetrics
GEORGE A. HENDON, M. D.....Clinical Surgery
CUTHBERT THOMPSON, M. D.....Clinical Medicine

HOSPITAL COLLEGE OF MEDICINE.

Local Advantages.

The city of Louisville has for half a century enjoyed the distinction of being one of the great centers of medical education in America. The central location of the city, midway between the extremes of North and South; its mild and equable climate; and its accessibility by means of its admirable railway facilities, offer exceptional advantages for educational purposes. The expenses of living are less than in any other large city in the United States. Statistics show that it is the healthiest city of its class, with exceptional freedom from epidemic diseases. With a population of over 225,000, with numerous large hospitals and dispensaries, this city affords unsurpassed facilities for medical instruction.

College Building.

The site of the College is immediately opposite the entrance to the Louisville City Hospital, on Chestnut Street. The situation is admirably adapted for the convenience of students, and for the large clinical work of the College. Six years ago a handsome four-story building was erected, which, with the former buildings (now thoroughly remodeled and improved), provides one of the most complete establishments for medical instruction in this country. This building is a modern brick and stone structure, with two large lecture-rooms, recitation-rooms, library, and museum, and well-equipped laboratories for Chemistry, Practical Anatomy, Operative Surgery, Histology, Pathology and Bacteriology, and Physiology.

Hospital Advantages.

The Gray Street Infirmary.

Four years ago the Faculty of the College erected a hospital adjoining the College building and connected with it. This addition to the facilities for clinical instruction enables students to acquire a practical hospital experience and training.

The new hospital is known as the "Gray Street Infirmary," and is a four-story brick and stone structure, of handsome design, fronting on Gray Street and extending to the rear of the present College building, with special entrance for students. It

contains four wards, two for white and two for colored patients, male and female; with numerous private rooms for special medical and surgical cases. The building is constructed and arranged after the most approved methods, with all modern appointments.

The College Dispensary.

The Dispensary of the College, which has always been largely attended by the indigent population of the city, has been greatly enlarged and the service systematized. Every facility has been added for conducting the treatment of 20,000 to 25,000 patients at the Dispensary annually.

Both the Infirmary and the Dispensary are kept open throughout the year. A resident physician and druggist are in attendance, and the clinics are regularly conducted. Here advanced students in sections are taught methods of diagnosis and clinical observation and treatment. All the principal major surgical operations, general and special, as well as minor operations, are performed in the presence of the class. Every variety of disease is illustrated by patients in attendance upon the College clinics and in the Infirmary.

The City Hospital.

The Louisville City Hospital has recently been greatly enlarged and improved. Its ample wards are kept constantly filled. All the requisites for advanced clinical instruction are abundant in the amphitheater and wards. The classes of the College are admitted to the hospital lectures and clinics. For two and one-half months during the session the service of the City Hospital is entirely conducted by the Faculty of the Hospital College of Medicine. Medical and Surgical Clinics are held there two afternoons each week during the session.

The splendid clinical advantages offered students by the Dispensary of the College, the perfected facilities of the Gray Street Infirmary, and the general medical and surgical clinics of the City Hospital constitute a complete system of clinical instruction.

Requirements for Admission.

Every student admitted to the college must be of good moral character, and this must be attested by satisfactory evidence.

On matriculating, students should present and file credentials showing they are graduates or matriculates of recognized colleges of literature, science, or arts, academies, or normal schools, or high schools, or pass a satisfactory examination in the following branches:

1. In English composition, submitting a composition on some subject of general interest embracing not less than two hundred words. This will be considered with reference to spelling, punctuation, thought, and construction.

2. In Arithmetic, showing knowledge of common and decimal fractions, percentage, and compound numbers.

3. In Algebra, through simple equations.

4. In Latin, the first year of the ordinary Latin course.

5. In Physics, on the elements of mechanics, hydrostatics, hydraulics, heat, optics, and acoustics.

When students are found deficient in one or more branches in the entrance examination they may enter the first-year course, but must fulfill these requirements before being admitted to the studies of the second year.

Advanced standing granted upon courses taken in other medical colleges, or upon professional or academic degrees, will be subject to revision if upon further investigation such courses or degrees are found insufficient to meet the requirements of the Association of American Medical Colleges.

At the close of each session examinations will be held. Each student who has attained eighty per cent of the course, and who passes satisfactory examination, will be issued a certificate, signed by the Dean and stamped with the seal of the University. The student will receive credit for that part of a course which he has attended and paid for.

The Faculty reserves the right to sever the connection of any student with the school when in its judgment it is warranted.

For further information or for catalogue, address

P. RICHARD TAYLOR, M. D., *Dean.*

Louisville, Kentucky.

STUDENTS.

Austin, Roy Y.....Ky.
Anderson, James E.....Miss.
Arnold, Calvin Garnett....Ky.
Acton, John Baston.....Ky.
Allison, Hugh Quitman....Ill.
Allphin, James C.....Ky.

Bott, Wm. Nicholas.....Va.
Beeler, Frank H.....Ind.
Beckett, Austin L.....Ky.
Bradley, Alfred.....Ky.
Bridges, Geo. P.....Ark.
Byrd, Richard Arthur.....Ky.
Broderick, Everett Burns..Ill.
Byrne, Walter, Jr.....Ky.
Bolin, John Tillman.....Ky.
Baugh, Joseph Franklin...Ky.
Burton, Chas. Calvin.....Ky.
Belcher, Oliver L.....Ind.
Bailey, Thurman B.....Ky.
Baisden, Robt. Lee.....W. Va.
Back, Wilgas .....Ky.
Brown, Chas. Robert.....Ind.
Bassett, Wilson Moorman.Ky.
Baker, Herman Marcus...Ky.
Breathwit, Wm.....Ark.
Brooks, C. H.....Texas.
Back, Burt C.....Ky.
Brickley, Daniel Martin...Ky.
Bailey, Jacob .....Ky.

Carter, Willie Farmer.....Ky.
Crook, James Wiley.....Ky.
Collins, Geo. Colvin.....Ky.
Crouch, Edward .....Ky.
Conley, Geo. Thomas.....Ky.
Coke, Lewis McMurtry....Ky.

Craig, Thomas Edwin.....Ill.
Castel, Wm. Rogers.....Ky.
Center, Wm. Taylor.....Ky.
Cash, Wm. Loward.....Ky.
Cannaday, Robt. Withe....Va.
Caseldine, H. C.....Ky.
Chestnut, Lee .....Ky.
Craft, Nicodemus W. B....Ky.
Champion, Leonard .....Ky.
Clark, Frank Hiram.....La.
Claypool, Harlan Grover..Ky.
Crawford, Clarence E.....Ind.
Cardwill, Lucian Walter.Miss.
Cundiff, Walter Roscoe....Ky
Corum, George Tye.....Ky.
Carroll, F. G.....Ky.

Davis, John Thomas.....Ky.
Dunckleman, John D.....La.
Dulpernell, Marion S.....Pa.
Dempsey, Mark.....W. Va.
Dick, Andrew Marion....Kan.
Dorroh, Harry C.....Cal.
Detson, Malcolm T.....Ky.
Dean, Roy Elmer.....Mich.

Edge, Ora Walter.....Ky.
Edge, Thos. J.....Ky.
Elrod, W. R.....Ky.
Edwards, Everett E.....Ky.
Eubank, Crawford H.....Ky.

Finley, Chas. L.....Ohio.
Fox, Vernon R.....Ky.
Fallis, Wm. Edgar.....Ky.
Flowers, Marshall Bryson.Ky.
Farbach, Henry .....Ind.

Fugate, Isaac Tyler.....Va.
Fair, Ellis N.....Ark.
Flannagan, Wm. G. D.....Ky.

Gibson, Chas. V.....Ky.
Garr, Clyde Louis.....Ky.
Gibbs, Salathial Cole.....Ky.
Garr, Chas. Crain.....Ky.
Garraway, Chas. R.....Miss.
Gibson, Lee Frances.....Ky.
Gould, Willie Francis.....Ky.
Gowdy, Edwin Lee.....Ky.

Heald, Walter Warden..Ohio.
Howard, Garfield .....Ky.
Holmes, Luther B.....Ky.
Henderson, Elmer Lee.....Ky.
Howel, Elsey W.....Ky.
Hobbs, Wm. H.....Ky.
Hoke, Harry Elwood.....Ky.
Hoover, Isaac J.....Ky.
Hinkle, Ferdinand W.....Ky.
Hunter, Ted Berlin.....Ky.
Hawkins, Wm. Hall.....Ky.
Hatwell, J. H.....Conn.
Hull, H. B.....Ark.
Hoover, I. J.....Ky.
Hays, H. C.....Ky.
Hopkins, P. W.....Ind.
Hays, W. A.....Ky.
Hill, Organ A.....La.
Hamilton, J. M.....Tenn.
Hall, Jos. Franklin.....Ky.
Hargis, W. Huard.....Texas.

Isaacs, Harrison.....Ky.
Irwin, C. M.....Texas.
Irby, Frank .....Ark.

Jones, L. Frank.....Ky.
Jackson, Francis M.....Ky.
Johnson, Chas. Theo.....Ky.
Jones, Wm. Alvey.....Ky.
Johnson, Green L.....Ky.

Karraker, Chas. Wm.....Ill.
Kirk, J. Allen.....Ky.
Keith, David Yandell.....Ky.
Krieger, Wm. A.....Ky.
Kash, Daniel Hurst.....Ky.
Keykendall, James Lewis..Ky.
Kern, Frank W.....Ind.
Kittinger, R. A.....Ky.
Kraft, Clifton D.....W. Va.

Lucas, Isaac M.....Ky.
Lampton, Jesse B.....Ky.
Lee, Roscoe L.....Ind.
Lacey, Geo. Wootson.....Ky.
Lomax, Claude .....Ind.
Langsdale, Guy.....Ind.
Leslie, Logan .....Ky.
Linville, Ernest Earl.....Ky.
Lake, Willard .....Ky.

Martin, Chas. F.....Ind.
Moore, Paul D.....Ky.
Martin, Claud G. .....Va.
Mattingly, G. E.....Ky.
Martin, H. C.....W. Va.
Matlock, Fred V.....Ky.
Morrison, J. H. S.....Tenn.
Moser, John Thomas.....Ky.
Moorhead, Wagner .....Ky.
Morse, W. P.....Ky.
Miller, S. F.....Ky.
May, Frank .....Ind.
Moss, C. A.....Ky.
Morrison, E. T.....Ky.
Milliard, John B.....W. Va.
Moore, Leonidas F.....Ky.
McConnell, Hiram K.....Va.

McWhitis, Mack .....Ky.
McDonald, C. R.....La.

Niman, D. Smith.....Ky.
Noblin, J. A.....Va.
Nunnelly, Sam B.....Ky.
Nock, H. N.....Ky.

Otto, Henry C.....Minn.
Ogden, Geo. R.....W. Va.
Oh, Kung Sun.....Korea
Orders, C. E.....Ohio.

Pennington, James F.....Ky.
Pryse, Poscoe C.....Ky.
Peters, Wm. B.....Va.
Powell, Chas. B.....Ky.
Perry, John Robert.....Ky.
Price, Morris M.....Ky.
Price, Grover C.....Ky.
Parker, James Harold.....Mo.
Parker, Walter L.....Mo.
Parker, G. M.....Ky.
Perkins, Jim G.....La.

Quigley, A. R.....Ky.

Ragsdale, Geo. Moss.....Mo.
Ridley, James Urey.....Ky.
Richmond, H. C. T.....Ky.
Rankin, G. C.....Ky.
Rush, Wm. .....Ky.
Roberts, W. O.....Ark.

Sutton, J. P.....Ky.
Smith, Edwin P.....Texas.
Shepard, T. A.....Ill.
Steely, B. F.....Ky.
Stewart, Omar Hall.....Ind.
Simpson, Morrell .....Ind.
Stalker, John M.....Ind.
Smith, Wallace A.....Wash.
Skaggs, D. R.....Ky.
Siler, Newton B.....Ky.
Snure, Henry .....Minn.
Sandbach, Wm. S.....Ky.
Snow, John C.....Ky.
Smith, Wm. J.....Ky.
Spicer, Woodson W.....Ky.
Smith, Wm. J.....Ky.
Smith, Geo. W.....Ky.
Sievers, Wm. N.....Ky.
Stroud, Claybourne G.....Ill.
Sprinkell, Harley M.....Ill.
Sweeney, Wm .J.....Ky.
Simmons, S. J.....Ky.
Spickard, Luther J.....Ky.
Snyder, E. J. C.....Ky.
Sievers, R. C.....Ky.
Smith, D. F.....Ky.

Trimble, V. G.....Ky.
Thomas Ansel L.....Ky.
Travis, Walter T.....Ky.
Terrell, Leland L.....Ky.
Turner, Virgil A.....Ky.
Tilton, J. James.....Ky.
Tileston, Edward M.....Ky.
Tinsley, John R.....Ky.
Tye, Benj. F.....Ky.
Tye, J. G.....Ky.

Varney, J. B.....W. Va.
Vardier, R. A.....Penn.

Whitis, Mack .....Ky.
Walters, Edgar Poe.....Ky.
Wilson, L. McNeal.....Ky.
West, Edward H.....Ky.
Weldon, Lon O.....Cal.
Wright, Chester A.....Ky.
Wall, Melville B.....Ky.

White, Geo. W.....Ky.
Wells, Alton .....Ky.
Winter, John Studebaker..Ky.
Wright, L. L.....Ky.
Wallace, Tracy .....Ky.
Waddell, Roy K.....Ky.
Williams, Wm. E. F.....Ky.
Washington, S. W.....Ky.
Workman, Benj. F.....Ky.
Wells, John P.....Ky.
Webb, Tobe T.....Ky.
White, J. T.....Ky.
Wallingford, Wm. H.....Ky.
Wellman, Jerry .....Ky.
Williams, J. C.....Ky.
Waters, C. T.....Ind.
Wells, Edmund Daniel....Ky.
Westmorland, J. P.....Texas.
Wyles, J. P.....Ky.
Williams, J. M.....Ky.
Zernow, H. S.....Ind.

LOUISVILLE COLLEGE

OF DENTISTRY

LOUISVILLE COLLEGE OF DENTISTRY.
LOUISVILLE, KENTUCKY.

CALENDAR.

1907-1908.

January 2—Christmas vacation closes. Second Semester begins.

February 22.—Washington's Birthday. Holiday.

March— —Meeting of Alumni Association. (Date to be announced.)

April 25 to May 2.—Freshman and Junior Examinations.
Final Examinations for the Degree of Doctor of Dental Surgery.

May 8.—Commencement.

October 3.—Session 1907-1908 begins.

OFFICERS OF ADMINISTRATION AND INSTRUCTION.

FREDERICK WILLIAM HINITT, Ph. D., D. D., *President of the University.*

LINDSAY HUGHES BLANTON, D. D., LL. D., *Vice President of the University.*

H. B. TILESTON, M. D., D. D. S., *President.*

E. M. KETTIG, M. D., D. D. S., *Vice President.*

WILLIAM E. GRANT, M. D., D. D. S., *Dean.*

FACULTY.

H. B. TILESTON, M. D., D. D. S., *President.*
Professor of Operative Dentistry and Dental Pathology.

E. M. KETTIG, M. D., D. D. S., *Vice-President.*
Professor of Prosthetic Dentistry, Crown and Bridge Work.

WILLIAM E. GRANT, M. D., D. D. S., *Dean.*
Professor of Orthodontia.

H. HORACE GRANT, A. M., M. D.
Professor of Oral Surgery and Clinical Surgery.

NEWTON T. YAGER, D. D. S.
Professor of Anaesthetics and Oral Diseases.

P. RICHARD TAYLOR, M. D.,
Professor of General Materia Medica, Pharmacology and Hygiene.

W. ED GRANT, M. D.
Professor of Anatomy and Osteology.

PHIILIP F. BARBOUR, A. M., M. D.
Professor of Chemistry and Metallurgy.

W. MARCUS RANDALL, D. D. S.
Professor of Operative and Prosthetic Technics, Physics, Dental and Comporative Dental Anatomy, and Porcelain Dental Art.

RAYMOND E. GRANT, D. D. S.
Professor of Crown and Bridge Work and Clinical Orthodontia.

MAX M. EBLE, D. D. S.
Professor of Practice, Ethics and History.

H. B. HOLMES, D. D. S.
Professor of Dental Materia Medica and Therapeutics.

ADOLPH O. PFINGST, M. D.
Professor of Physiology.

W. CARL GRANT, M. D.
Associate Professor of Anatomy and Osteology.

FRED L. KOONTZ, M. D.
Professor of Histology, Bacteriology and Pathology.

CLINICAL AND ADJUNCT STAFF

EDWARD H. HUBBUCH, D. D. S.
Instructor in Operative Dentistry.

H. B. HOLMES, D. D. S.
Instructor in Operative Dentistry.

W. M. RANDALL, D. D. S.
Instructor in Operative Dentistry and Porcelain Applied to Dentistry.

B. D. RIVERS, A. M., D. D. S.
Professor of Embryology and Instructor in Operative Dentistry.

RAYMOND E. GRANT, D. D. S.
Instructor in Operative Dentistry.

J. B. JORDAN, D. D. S.
Instructor in Prosthetic Dentistry.

E. LEE HEFLIN, M. D.
Associate Professor of Surgery.

W. C. GRANT, M. D.
Instructor in Anatomical Department.

FRED L. KOONTZ, M. D.
Instructor in Chemistry.

COLLEGE ASSISTANTS.

FRANK A. KUNTZ.
Registrar and Assistant to Dean.

MISS R. J. BENNETT.
Secretary of Infirmary.

MRS. C. M. CARTER.
Assistant Secretary and Official Stenographer.

MRS. M. C. AVERY.
Librarian.

WM. F. STARBUCK.
Engineer and Head Janitor.

LOUISVILLE COLLEGE OF DENTISTRY.

The New College Building.

The Louisville College of Dentistry was organized in 1887, as a branch of the Central University of Kentucky, and was connected with the Hospital College of Medicine up to 1890. In that year, on account of the increase in the number of students attending its sessions and the advance in its equipment and methods of teaching, it became necessary to provide a new home for the College of Dentistry, and the faculty were fortunate in securing a very desirable site in the northwest corner of Brook Street and Broadway. Upon this property has been erected a handsome and complete college building, modern in arrangement and equipment, which has been pronounced by all who have inspected it to be equal to any dental college building in existence.

Electric car lines, which, with their systems of transfers, reach every part of the city, pass the new building on two sides, and thus make the daily clinic available to all those desirous of dental service, giving the student all the opportunity possible to get sufficient practical experience before graduating.

National Recognition.

The Louisville College of Dentistry has been a member of the National Association of Dental Faculties ever since its organization, and through its representatives always takes an active part in the deliberations of that body. The college is recognized by the National Association of Dental Examiners; it also has membership in the Institute of Dental Pedagogics.

The Course of Instruction.

The course of instruction is based upon a full recognition of the fact that the profession of dentistry is a healing art, and hence the student is given every opportunity to extend his knowledge in the field of medicine. But naturally those subjects pertaining more strictly to the practice of dentistry receive the most earnest attention on the part of the instructors. It is a deserved tribute to the thoroughness of the teaching of the principles and practice of dental surgery that the graduates from this institution have no difficulty in passing the examining

boards of those States where no dental degree is recognized, and many of the junior students have passed some of the most exacting boards successfully.

While the class instruction is all that can be desired, the practice in both the laboratory and infirmary brings into exercise the theory received in the amphitheater, and no established practitioner will meet in his daily practice any form of operation in the oral cavity that is not presented to the student in this college.

The Faculty.

The Faculty is composed of men experienced in their profession; the demonstrators in the laboratories and infirmary are competent and experienced. Members of the Faculty spend several hours of each week in the infirmary and laboratories giving practical instruction, and it can safely be said that the graduate of this school has had all the advantages of instruction in the technique of the profession that can possibly be obtained.

The Degree.

The object of this school is to elevate the dental profession, through its students, to that high standard that it must ultimately attain. The future possibilities of dental surgery cannot be estimated, and in order that the dental student may be able to meet all requirements, it is absolutely necessary that his education be broad and comprehensive.

In order to obtain a degree from the Louisville College of Dentistry, it is necessary that three full courses of graded instruction be taken; the last of these must be in this college. No two courses can be taken during the same year.

It is the constant aim of the Faculty to have every student who receives a diploma of the College thoroughly equipped with that knowledge, both theoretical and practical, which will enable him to practice his profession in an eminently qualified manner, and to this end no pains have been spared to place before the student everything that will aid him in his present and future advancement.

Opening Date, October 3, 1907.

The Dental College now being independent, it was deemed best to change the date of opening so as to conform with that of the other colleges in the Dental Faculties Association. Stu-

dents will please note that the next session of the college will begin on October 3, 1907, and continue thirty weeks. They should note, also, that students must be present and matriculate not later than ten days after the opening of the session in order to receive credit for the entire term.

The Post-Graduate or Practical Course begins August 27, and continues to October 12. This is a thoroughly practical course, embracing all the important subjects of dentistry. If interested, write for special announcement.

Requirements for Admission.

Extracts from Code of Rules of the National Association of Dental Faculties:

"The minimum preliminary educational requirements of colleges of this Association shall be a certificate of entrance into the third year of a high school, or its equivalent, the preliminary examination to be placed in the hands of the State Superintendent of Public Instruction.

"No member of this Association shall give credit for a full course to students admitted later than ten days after the opening day of the session as published in the announcement.

"In case one is prevented by sickness, properly certified to by a reputable physician, from complying with the foregoing rule, the time of admission shall not be later than twenty days from the opening day."

"Students in attendance at colleges of this Association, to obtain credit for a full term, must be and remain in attendance until the close of the session."

Students desiring to matriculate should bring any diplomas or credits for advanced standing, literary or otherwise, which they have.

The candidate will be required to submit to the Dean of the College satisfactory evidence of good moral character.

Matriculation at an early date is desirable in order to secure choice seats in the two amphitheaters, also chairs, lockers, etc., as all assignments are made in order of matriculation. The students are expected to occupy the seats assigned to them throughout the term.

Only white male students are admitted to the classes.

Instruments.

Each student, before beginning the work for the year, is positively required to procure certain instruments with which to do his work, a list of which will be furnished by the Dean. The outfit for college adapted for after-practice will cost about $25.00 for the Freshman year, and during the following years $50.00 to $75.00 more.

Requirements for Graduation.

The College, being a member of the National Association of Dental Faculties, requires "Attendance upon three full courses, of not less than thirty weeks each, in separate academic years, before graduation," and also requires the candidates to be twenty-one years of age, to have devoted four years to the study of dentistry, and to have attended three full courses of lectures in separate years, in which he shall have entered college not later than the tenth day after the beginning of the session, and the last of which must have been in this institution; to possess an acceptable moral character, including good deportment while a student; to have deposited in the college museum a creditable specimen of prosthesis, made in the college laboratory, and to have performed in the infirmary such operations as may have been required of him, and finally to pass a satisfactory written examination on all obligatory branches.

Branches of Study.

All branches that have a direct bearing on dentistry are taught, including Anatomy, Physiology, Chemistry and Metallurgy, Operative Dentistry, Dental Pathology and Embryology, Prosthetic Dentistry, Crown and Bridge Work, Prosthetic Technics, Operative Technics, Dental and Comparative Dental Anatomy, Orthodontia, Materia Medica, Pharmacology and Hygiene, Dental Materia Medica and Therapeutics, Surgery, Anesthetics and Oral Diseases, Histology, Bacteriology and Pathology, Physics and Porcelain Dental Art, Applied Electricity, Dental History, Practice and Ethics, and Dental Jurisprudence.

Those desiring further information or wishing a catalogue of the Louisville College of Dentistry, can procure the same by addressing,

W. E. Grant, D. D. S., *Dean,*
Brook Street and Broadway, Louisville, Ky.

STUDENTS.

SENIORS.

Baird, Jas. F.....Ky.
Baker, Robert L.....Mo.
Barnett, Jos. J.....Mo.
Beeler, Richard L.....Ind.
Bentley, Grover C.....Ky.
Black, Howard V.....Ind.
Boone, J. Ray.....Ky.
Bryan, Claude H.....Utah
Casper, Wm. M.....Ind.
Coleman, James D.....Miss.
Coogle, Marshall.....Ky.
Cope, Clinton C.....Ind.
Corley, Wm. B.....Ky.
Fordyce, Murat T.....Ala.
French, Newton B.....Va.
Gibbs, Millard D.....Ky.
Hampton, Garland .....Okla.
Haworth, J. Leslie.....Ind.
Hill, A. Lester.....Mo.
Hook, Frank .....Ky.
Hughes, James L.....Ky.
Hynes, William .....Ky.
Johnsen, E. N.....N. Y.
Johnson, Wallace .....W. Va.
Long, B. Houston.....Ky.
Long, Dallas C.....Ky.
Lowdenback, B. B.....Ky.
Lundell, Henry W.....Minn.
Lucas, Presley O.....Kan.
Mabbs, Ray S.....Mich.
Maggard, Henry B.....Ky.
Meade, Lloyd.....Ky.
Merideth, Omar S.....Ky.
Moffatt, J. C. N.....Miss.
Monfort, Frank W.....Ky.
Mullinix, Wm. E.....Tenn.
Pemberton, Wm. S.....Ky.
Prichard, Chas. G.....Ind.
Ratts, Arthur D.....Ill.
Royalty, Hubert E.....Ky.
Russ, Rodrick S.....Miss.
Rutherford, Grover C..W. Va.
Selden, Joseph L.....Ala.
Simpson, Ira B.....Ky.
Simpson, Reuben S.....Miss.
Smith, Everett W.....Ky.
Steele, Andrew J.....Ky.
Stephenson, Ira S.....Ky.
Stone, Chas. .....Ky.
Stone, Othinel O.....Ky.
Sullivan, J. Frank.....Ky.
Schuhmacher, Geo. M....Ind.
Tate, Arthur B.....Ky.
Thomson, George W.....Ky.
Trotter, Powell B.....Miss.
Vincent, Henry C.....Ky.
Welsh, Thos. J.....Ky.
Wilcoxson, Bion L.....Ky.
Wunsch, Chester L.....Ky.

JUNIORS.

Amburgy, Grover C....W. Va.
Bailey, Jas. E.....Ky.
Barton, Robt. W.....Tex.
Behrle, Ray A.....Ky.
Bell, William P.....Ky.
Boyd, W. W.....Ky.
Cadmus, Jno. Henry.....N. J.
Casper, James A.....Ind.

Crislip, Chester A.....W. Va.
Claxton, Walter P.....Tenn.
Duncan, Herbert L.....Ky.
Ewing, Frank S.....Ky.
Farrar, Walter T.....Ky.
Foster, Harry E.....Ky.
Fountaine, A. L.....Ky.
Galanter, Harry .....Russia
Gardner, Elias H.....Ky.
Garnett, Everett R.....Ky.
Gibson, Ben.....Va.
Guthrie, Michael B.....Ind.
Hall, Geo. C.....Ky.
Hardin, J. Festus.....Ala.
Hilburger, Jos. J.....Wash.
Hottle, Oliver W.....Ind.
Hull, Jno. H.....Ind.
Jolly, Frank M.....Penn.
Kaiser, Carl D.....Ind.
Kiebler, R. Courtney.....Ky.
Morrow, James T.....Miss.
McCauley, Jno. O.....Ky.
McEuen, Barton C.....Ky.
McHugh, Jos. T.....Ky.
Nichols, Lucien I.....Ky.
Parsons, Ernest.....Ky.
Ransdell, Ben. F.....Ind.
Redens, Boone .....Ind.
Rees, Geo. M.....Ky.
Rivers, Ambrus B.....Miss.
Smith, J. Albert.....Ky.
Smith, Haskell W.....Ky.
Stumbo, Edw. .....Ky.
Thacker, Henry F.....Tenn.
Thompson, William A.....Ky.
Torsch, Edw. A. R.....Ky.
Trinler, William A.....Ind.
Webb, Jas. W.....Miss.
Wilkins, Chas. E.....Miss.
Wolfe, Power .....Ky.

FRESHMEN.

Alexander, Wm. R.....Mo.
Alvis, Wm. F.....Ky.
Alvis, B. Y.....Mo.
Brick, Leo. J.....Minn.
Burdge, Chas. W.....Ind.
Brummett, E. M.....Ky.
Brummett, G. A.....Ky.
Bird, Stephen T.....W. Va.
Bott, Geo. W.....Va.
Bailey, J. Z.....Ky.
Boone, Hillery J.....Ky.
Carnahan, Jno. R.....Ind.
Carroll, D. O.....Ky.
Cochran, Irad M.....Texas
Coleman, J. E.....Ind.
Davidson, H. L.....Ind.
Deason, Robt. P.....Ala.
Depp, H. W.....Ky.
Dossett, Blake.....Ky.
Fedric, Jones E.....Miss.
Grace, Lucien.....Ky.
Griffin, J. Lindley.....Ky.
Hammons, S. P.....Ky.
Hardin, J. Trace.....Ky.
Hargis, Clarence .....La.
Hargis, J. E.....Miss.
Haworth, Otis .....Ind.
Hudson, M. J.....Miss.
Johnson, Walter E.....Ky.
Keene, R. W.....Ky.
Mayer, Otto .....N. J.
McCoy, Wm. F.....Ky.
McGuire, M. J.....W. Va.
Neirling, Bert V.....N. D.
Nelson, Jas. E.....W. Va.
Patrick, Hebern J.....Ky.
Pearcy, C. Spurgeon.....Ind.
Pearcy, W. I.....Ind.

Peyton, Jno. M.....Ky.
Phillips, Jos. N.....Ky.
Putnam, J. C.....Ala.
Robertson, Jno. T.....Ky.
Samuels, E. O.....Ky.
Sanders, H. P.....Mont.
Schweitzer, Chas. D.....Ky.
Steinberg, S. M.....Ky.
Vaughan, Tobe D.....Ky.
Weil, Harry J.....Ind.
Welter, Chas. H.....Ind.

IRREGULARS.

Greear, Geo. H.....Va.
Hill, Alex. L.....Ky.
Smith, D. H.....Ky.
Jones, A. C.....Ky.
Jones, C. C.....Ky.

THE UNIVERSITY SCHOOLS

CENTRE COLLEGE ACADEMY.

FACULTY.

Leslie Carroll Bosley, A. M., LL. B., *Principal.*
John Logan Bosley, A. M., *Instructor.*
John Leslie Purdom, A. B., *Instructor.*

The Centre College Academy, at Danville, has for a number of years been the recognized preparatory school for Centre College. The work done in the Academy is so designed that the student can take up the College work without conditions.

It is the aim of the instructors not only to prepare the student thoroughly for college, but to inspire him with an ambition to complete his education. The increasing demand for educated men is kept constantly before his mind.

The thoroughness of the work of the Academy is attested by the fact that many of the most prominent alumni of the College have here received their elementary training. In recent years many of the College prizes have been won by the Academy students.

Building.

The Academy building is a large two-story brick structure with the very best ventilation and light. It is furnished with single desks, globes, maps and other appliances. The yard affords an ample exercise ground for students.

Tuition.

The tuition, payable in advance, for each Semester of five months, is $25.00 in the Third year; $22.50 in the Second year, and $20.00 in the First and Sub-preparatory years.

Discipline.

The teachers in the Academy have, by long experience, found that appeals to the pride and reason of a student will almost always prevail, and only in extreme cases are severe disciplinary

measures resorted to. Respect for instructors is demanded. Regular attendance is insisted upon, and absence from recitation is immediately reported to the parent or guardian. Any infringement on the rights of fellow-students, or the use of obscene language on the ground, is promptly punished. It is the aim of the Faculty to cultivate in all students the essentials of Christian manhood.

Gymnasium.

As a systematically developed body is of prime importance to every man, the students are encouraged to take advantage of the systematic drill in physical culture offered by the College Gymnasium. The Academy students are under the supervision of the College Physical Director.

OUTLINE OF COURSES OF INSTRUCTION.

Classical Course.

First Year.

Semester One.

Arithmetic ..... 5 hours
English Grammar ..... 5 hours
U. S. History ..... 5 hours
Latin. Grammar and Lessons, 1..... 5 hours

Semester Two.

Arithmetic ..... 5 hours
English Grammar and Reading ..... 5 hours
U. S. History ..... 5 hours
Latin. Grammar and Lessons, 2..... 5 hours

Second Year.

Semester One.

Latin. Viri Romae, Cæsar and Composition, 3..... 5 hours
Mathematics. Arithmetic, review, 11..... 5 hours
English. Grammar and Elementary Composition, 17.... 5 hours
History. Greek and Roman, 23..... 5 hours

Semester Two.

Latin. Cæsar and Composition, 4..... 5 hours
Mathematics. Elementary Algebra, 12..... 5 hours

English. American Literature and Composition, 18.... 5 hours
History. Greek and Roman, 23..... 5 hours

Third Year.

Semester One.

Greek. White's First Greek Book, 7..... 5 hours
Latin. Cæsar and Composition, 3..... 5 hours
Mathematics. Algebra, 13..... 5 hours
English. Rhetoric and English Literature, 19..... 5 hours

Semester Two.

Greek. Lessons and Anabasis, 8..... 5 hours
Latin. Vergil, Aeneid, with Composition, 5..... 5 hours
Mathematics. Algebra completed, 14..... 5 hours
English. Rhetoric and English Literature, 20..... 5 hours

Fourth Year.

Semester One.

Greek. Anabasis and Composition, 9..... 4 hours
Latin. Cicero, Orations and Compositions, 6..... 4 hours
Mathematics. Plane Geometry, 15..... 4 hours
English. English Literature. History, 21..... 4 hours
Science, 26 ..... 4 hours

Semester Two.

Greek. Anabasis and Composition, 10..... 4 hours
Latin. Cicero, Orations, 6..... 4 hours
Mathematics. Plane Geometry completed, 16..... 4 hours
English. Literature and Composition, 22..... 4 hours
Science, 27 ..... 4 hours

Scientific and Modern Language Courses same as above, except that German, 28, 29, 30, 31, is substituted for Greek, 7, 8, 9, 10.

English Course.

First Year.

Semester One.

Mathematics. Arithmetic, Review, 11 . ..... 5 hours
English. Grammar and Elementary Composition, 17.... 5 hours
History. Greek and Roman, 23..... 5 hours

Semester Two.

Mathematics. Elementary Algebra, 12 ..... 5 hours

English. American Literature and Composition, 18.... 5 hours
History. Greek and Roman, 23..... 5 hours

Second Year.

Semester One.

German. Grammar and Lessons, 28..... 5 hours
Mathematics. Algebra, 13..... 5 hours
English. Rhetoric and English Literature, 19..... 5 hours
History. English, 24..... 5 hours

Semester Two.

German. Grammar and Reading, 29..... 5 hours
Mathematics. Algebra completed, 14..... 5 hours
English. Rhetoric and English Literature, 20..... 5 hours
History. English, 25..... 5 hours

Third Year.

Semester One.

German. Reading and Composition, 30..... 4 hours
Mathematics. Plane Geometry, 15..... 4 hours
English. English Literature. History, 21..... 4 hours
Science, 26 ..... 4 hours

Semester Two.

German. Reading and Composition, 31..... 4 hours
Mathematics. Plane Geometry completed, 16..... 4 hours
English. Literature and Composition, 22..... 4 hours
Science, 27 ..... 4 hours

The English Course does not prepare students to enter college.

DESCRIPTION OF COURSES OF INSTRUCTION.

I. LATIN.

1. *Grammar and Lessons.* Special attention to pronunciation; mastery of forms; declensions and conjugations. Text-book: Collar & Daniels' *First Latin Book.*

2. *Lessons and Reading.* The time will be devoted to completion of first book and the reading of some easy Latin. Text-books: Collar & Daniels' *First Latin Book, New Gradatim,* Collar's *Gate to Caesar.*

3 and 4. *Viri Romae, Caesar and Composition.* First four books of Cæsar, with construction and drill on subjunctives, conditions, etc. Composition and grammar. Text-books: Allen & Greenough's *New Caesar,* Allen & Greenough's *Latin Grammar,* Moulton's *Composition.*

5. *Vergil and Composition.* Four Books of Vergil, with scanning and composition. Text-books: Greenough & Kittredge's *Vergil,* Moulton's *Composition,* Allen & Grenough's *Latin Grammar.*

6. *Cicero.* Six Orations of Cicero. Text-books: Allen & Greenough's *New Cicero,* Allen & Greenough's *Latin Grammar.*

II. GREEK.

7. *Lessons.* Time is devoted to drill on pronunciation, accent, and to the mastery of forms by translating Greek into English and English into Greek. Text-books: White's *First Greek Book.*

8. *Lessons and Anabasis.* The first Greek book is completed and three chapters of First Book of Anabasis are read; daily drill on forms. Text-books: Goodwin & White's *Anabasis,* Goodwin's *Greek Grammar.*

9 and 10. *Anabasis and Composition.* Remainder of First Book, with Second, Third and Fourth Books of Anabasis, with grammar and composition. Text-books: Goodwin & White's *Anabasis,* Goodwin's *Greek Grammar* and Pearson's *Greek Prose.*

III. MATHEMATICS.

11. Time is devoted to a thorough review of the practical principles of Arithmetic. Percentage, interest, involution, etc.,

with daily drill in Mental Arithmetic. Text-books: White's *Complete Arithmetic,* Stoddard's *Intellectual Arithmetic.*

12. *Algebra.* Study of Elementary Algebra. Text-book: Wentworth's *New School Algebra.*

13 and 14. *Algebra.* Algebra completed through Quadratics. Text-book: Wentworth's *New School Algebra.*

15 and 16. *Geometry.* Plane Geometry, with original propositions. Text-book: Wentworth.

IV. ENGLISH.

17. Analysis of sentences, conjugations of the verb and drill on the parts of speech. Text-books: Reed & Kellogg's *Higher Lessons in English.*

18. Three recitations of each week will be devoted to study of American literature, biography of American authors, interpretation of the subject matter, two recitations to composition work, outlines, etc. Text-books: *Masterpieces of American Literature, First Book in Writing English.*

19 and 20. *Rhetoric and Literature.* The figures of rhetoric will be impressed upon the mind of the pupil by pointing out such figures as may appear in selections read, in conjunction with the text. Text-book: Hill's *Elements of Rhetoric,* Selections from English Literature.

21 and 22. *English Literature.* With the History of English Literature, collateral reading selected by the instructor, and composition work discussed by class. Text-book: Painter's *Introduction to English Literature.*

V. HISTORY.

23. *Ancient.* History of Greece and Rome. Text-book: Myers' *Ancient History.*

24 and 25. *English.* Text-book: Montgomery's *English History.*

VI. SCIENCE.

26 and 27. *Physical Geography.* Text-book: Tarr's *Elementary Physical Geography.*

VII. GERMAN.

28 and 29. *Lessons.* The time will be devoted to practice in pronunciation and mastery of declensions and conjugations,

with translations from English into German and from German into English. Text-book: Bierwirth's *Beginning German.*

30 and 31. ***Reading and Composition.*** To increase the vocabulary of the student, selections of easy German will be read, with composition work one recitation each week. Text-books: Grimm's *Märchen,* Hauff's *Tales,* Storm's *Immensee,* Thomas' *German Grammar.*

STUDENTS IN CENTRE COLLEGE ACADEMY.

Fourth Year.

Adler, Herman Schrugham.....Danville
Anderson, William Clayton.....Danville
Bates, Edgar Fleming.....Danville
Caldwell, William Logan.....Danville
Davis, Jackson Curry.....Danville
Gibbons, Marrs Rossell.....Danville
Irvine, John Craig.....Bedford, Ind.
Lee, James Ambrose.....Danville
McClure, William Crow.....Danville
Nichols, Henry Lyons.....Danville
Parks, Hope Wright.....Danville
Quisenberry, Thomas Edwin .....Danville
Reid, Horace Withers.....Danville
Seay, Cecil .....Atoka, Ky.
Settles, Grover Cleveland.....Danville
Tevis, Henry Lloyd.....Shelby City
Timoney, Arthur William.....Danville
Tucker, Clarence Edgar.....Parksville
Walker, Caldwell Reghell.....Strunks, Ky.
Webster, Henry Archibald.....Danville
Woodson, Edwin .....Danville
Woodson, Grattan Crow.....Danville

Third Year.

Anderson, Charles Francis.....Danville
Beck, Kyle .....Marcellus
Buttram, Miller .....New River, Tenn.
Cheatham, Thomas Pierce.....Fairfield
Chrisman, George Robert.....Danville
Dunn, Jack, Jr.....Bryantsville
Dunn, Walter Scott.....Danville
Latimer, William Maxwell.....Danville
Smith, David Stokeley.....Hodgenville

Second Year.

Anderson, McElroy .....Danville
Beck, William .....Marcellus, Ky.

Daniel, George Bales .....Kingston, Ky.
Eartland, Thomas Durham.....Danville
Frank, Arthur John.....Danville
Harmon, George, Jr.....Danville
Hocker, Carroll Kendrick.....Danville
Hogg, William St. Claire.....Booneville, Ky.
McAfee, William Edelen.....Shelby City
McAfee, James Clifton.....Shelby City
McConnell, James Hastings.....Danville
Nevius, Daniel Hutchings.....Danville
Rue, George Welsh.....Danville
Tate, Robert Stuart .....Danville
Tucker, William Cosby.....Stanford

First Year.

Cobb, Jesse Richard.....Danville
Flaig, Raymond Guy.....Danville
Gilcher, Ralph Jacob.....Danville
Gilcher, Rudolph Peter.....Danville
Haselden, Armsted Swope.....Danville
Henson, Noah Birtram.....Danville
Hogg, Hiram.....Booneville, Ky.
Hood, Hayden Curtis.....Danville
Lillard, John Stout.....Danville
Logan, John Bright.....Danville
McAfee, Givens .....Shelby City
McDowell, Samuel .....Danville
McDowell, Miles Saunders.....Danville
McDowell, Robert Briggs.....Danville
McDowell, Charles McElroy.....Danville
Richardson, Ernest Hilton.....Junction City
Sandifer, John Proctor.....Danville
Swope, Simeon King.....Danville
Tarkington, Julian .....Parksville
Walker, Gabriel Caldwell.....Danville
Wiseman, Gavin Easton.....Danville

LEES COLLEGIATE INSTITUTE, JACKSON, KENTUCKY.

In accordance with the terms of the Articles of Consolidation, the Lees Collegiate Institute was transferred to the Synod of Kentucky, U. S., October, 1906.

HARDIN COLLEGIATE INSTITUTE,
ELIZABETHTOWN, KENTUCKY.

CALENDAR.

1907-1908.

September 12—First term begins.
December 23 to January 1—Christmas holidays.
January 20—First term closes.
January 23—Second term begins.
February 24.—Annual Entertainment.
May 26—Commencement.

HARDIN COLLEGIATE INSTITUTE.

FACULTY.

J. B. CASSIDY, Principal, *Mathematics and Science.*
MRS. J. B. CASSIDY, *Latin, German and English.*
REV. L. O. SPENCER, *Greek.*
MISS LOUISE SHOWERS, *Music.*
MRS. W. H. ROBERTSON, *Elocution.*

History.

The Hardin Collegiate Institute, of Elizabethtown, was established in 1892 by the Central University of Kentucky as a high grade preparatory school for boys, but two years later it was deemed wise to offer the advantages of the school to girls also, and since then there has been about an equal number of each. A beautiful site of seven acres was secured just outside of the city limits, and a well appointed building, costing fifteen thousand dollars, was erected. The grounds and building were the result of the munificence of the people of Elizabethtown, who have ever been alive to the interests of the school, and are always kind and courteous to pupils from a distance. In 1901 the increasing patronage of the school rendered it necessary to build a temporary dormitory for the boarding pupils; this hall, erected at a cost of four thousand dollars, is a model of convenience, and here the boarding pupils find as safe and comfortable a home as can be had at any similar institution in the State. The Institute, while doing a good work from the first, has during the past three years enjoyed a wider degree of usefulness and popularity than before. The one aim of the school is to merit the esteem and confidence of its friends and patrons.

Location.

Elizabethtown is the capital of one of the best counties of the State, and is favorably located on the L. & N. Railroad, forty-one miles south of Louisville.

Expenses.

The charges of the school have been made uniform, and are as low as any similar school in the State; they are such as not to admit of any reduction. The entire expenses of pupils staying all the time will be $58.50 per term, or $117 per year, while those of pupils staying from Monday till Friday will be $45 per term, or $90 per year.

Table of Expenses.

Tuition, per term	$18 00
Board, from Monday to Friday	1 50
Board, for entire week	2 50
Elocution, per month	3 00
Music, per month	4 00

When tuition is paid by the week, it is reckoned at the rate of $1.15. The laboratory fee for students in chemistry is $5 each.

Board is payable at the end of each month; tuition, quarterly in advance.

STUDENTS.

Boyd, Belle	LaRue County
Boyd, Helen	LaRue County
Bunger, Owen	Hardin County
Bush, Virgil	Elizabethtown
Bethel, Alberta	Elizabethtown
Bethel, Nell	Elizabethtown
Brashere, W. I.	Cecilia
Brownfield, Wyatt	Tonieville
Brown, George	Coalburg
Brentlinger, Roger	Louisville
Churchill, Howard	Elizabethtown
Chelf, Lloyd	Elizabethtown
Cassiday, Benjamin	Elizabethtown
Cofer, Ella	Hardin County
Cofer, Marietta	Tonieville
Dyer, Florence	Elizabethtown
English, Mary	Elizabethtown
Fryrear, Bettie	Hardin County
Fairleigh, Murray	Elizabethtown
Fairleigh, Urey	Elizabethtown
Fairleigh, Myrtle	Elizabethtown
Gardner, Eva	Elizabethtown
Goodin, Herman	Hardin County
Hollis, Chas.	Cecilia
Harris, Minerva	Elizabethtown
Hampton, Hurst	Simpson
Heady, Colonel C.	LaRue County
Heady, Jeff G.	LaRue County
Jones, Lucile	Elizabethtown
Kimball, Paul	Tonieville
Kimball, Kathleen	Tonieville
Kimball, Clo	Tonieville
Long, Strother	Rinieville
Long, Lucy	Rinieville
Lewis, Gabe	Rinieville
Lee, Lillie	Elizabethtown
Merriott, William	Elizabethtown
Montgomery, J. B.	Elizabethtown

McFarland, Chester	Elizabethtown
Marion, Paul	Elizabethtown
Mulhall, Albert	Hardin County
Nall, Guy	Rinieville
Neill, Will. R.....	Stithton
Ozias, Mary	Hardin County
Owsley, Lee J.....	White Mills
Patterson, Cash	Hardin County
Paul, Jesse J.....	Hardin Springs
Richardson, Henry	Elizabethtown
Spriggs, Mildred	Elizabethtown
Spencer, Elizabeth	Elizabethtown
Stith, Arthur L.....	Hardin County
Tabb, Joe	Elizabethtown
Troutman, W. F.....	Boston
Troutman, Katie	Boston
Woodyard, Lawrence	Tonieville
Watkins, Philip	Elizabethtown
Warfield, Guy	Elizabethtown
Warfield, Jack	Elizabethtown
Young, Sarah	Elizabethtown

GENERAL SUMMARY.

Officers of Instruction and Administration—

Trustees	24	
Faculties and Instructors	70	
Administrative Officers and Assistants	4	
	98	98

Students.

The Colleges.

The Centre College of Kentucky—

Graduate Students	2	
Seniors	24	
Juniors	25	
Sophomores	31	
Freshmen	57	
Specials	15	
	154	154

The College of Law—

Seniors	7	
Juniors	9	
	16	16

The Hospital College of Medicine— 238

The Louisville College of Dentistry—

Seniors	49	
Juniors	47	
Freshmen	59	
Irregulars	5	
	160	160
		568

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Total for the year 1906-1907..... 694

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ENTRANCE EXAMINATIONS.

The following papers are offered as specimens of the examinations for admission to the Freshman Class:

ENGLISH

COMPOSITION

1. Write a composition of not less than 200 words on one of the following subjects: My Journey to Centre College; My Last Year in the ——— School; An Unpleasant Experience; My Favorite Study.

GRAMMAR

2. Analyze, showing relations of various parts of speech and phrases and clauses:

"If it were done when 'tis done, then 'twere well
It were done quickly." (Macbeth I. vii, 1, 2.)

LITERATURE

3. Outline the plot of *Macbeth,* and describe two leading characters.

4. Contrast *L'Allegro* and *Il Penseroso* in both structure and meaning.

5. Describe the Tournament scene in *Ivanhoe.*

6. Point out and explain the figurative uses of speech and peculiar uses of language and references in the following words and phrases in italics:

"Now o'er *the one-half world*
Nature seems dead, and *wicked dreams* abuse
The curtained sleep; *witchcraft celebrates*
Pale Hecate's offerings; and *wither'd murder,*
Alarum'd by his sentinel, the wolf,
Whose howl's his *wrath,* thus with his stealthy pace,
With Tarquin's ravishing strides, towards his designs
Moves like a ghost. *Thou sure and firm-set earth,*
Hear not my steps, which way they walk, for fear
The very *stones prate* of my whereabouts,
And take *the present horror from the time,*
Which now suits with it." (Macbeth, II, i, 48-59.)

7. Name all the texts read and studied for this examination, and give brief sketches of any two of the writers.

MATHEMATICS

A. ELEMENTARY ALGEBRA

1. Divide $x^{\frac{3}{2}} + y^{\frac{3}{2}}$ by $x^{\frac{1}{2}} + y^{\frac{1}{2}}$.
2. Factor $x^3a^4 - y^3a^4 - b^4x^3 + b^4y^3$.
3. Simplify $\sqrt[3]{24} + \sqrt[3]{81} - \sqrt[3]{192}$.
4. Solve $\frac{2x-3}{2x-4} - 6 = \frac{x+5}{3x-6} - \frac{11}{6}$.
5. Simplify $\frac{xy^2+y^3}{x^2+xy+y^2} \div \frac{x^2y^2-x^4}{y^3-x^3}$.
6. Extract the square root of $x^6-4x^5+10x^4+25x^2-20x^3+16-24x$.
7. Solve the following equations:
   (a) $5x^2 - 11x + 2 = 0$.
   (b) $2x^2 + 1 + \sqrt{2x^2 + 1} = 12$.
8. Find the pairs of values of x and y which satisfy the simultaneous equations $x^2 - xy + y^2 = 63$ and $x - y = -3$.
9. Without solving, determine the character of the roots of the following equations:
   (a) $9x^2 - 12x + 1 = 0$.
   (b) $12x^2 - 84x + 147 = 0$.
   (c) $3x^2 - 10x + 16 = 0$.

B. ADVANCED ALGEBRA

1. Resolve the following fraction into its simplest partial fractions:
$$\frac{13x-21}{(x-1)(x-2)(x+3)}.$$
2. The fifth term of a geometrical progression of eight terms is 81, the last term is -2187. Find the sum of the series.
3. (a) Prove that in any system of logarithms the logarithm of any power of a number is equal to the logarithm of the number multiplied by the exponent of the power.
   (b) Given the $\log_{10}2 = .3010$ and $\log_{10}3 = .4771$, find $\log_{10}\sqrt{\frac{32}{27}}$.
4. The sum of two roots of the following equation is zero; find all the roots: $x^3 - 5x^2 - 16x + 80 = 0$.
5. Prove that the equation $x^7 + 2x^5 - 5x^2 - 4 = 0$ has one positive real root and six imaginary roots.

6. One root of $x^3 - 7x - 1 = 0$ lies between 2 and 3. Using Horner's method, find it to two places of decimals.

7. Solve the following system of equations by determinants:

$$\begin{cases} 2x + 4y - 3z = 3, \\ 3x - 8y + 6z = 1, \\ 8x - 2y - 9z = 4. \end{cases}$$

C—PLANE GEOMETRY.

1. (a) Define a triangle. Classify triangles according to their sides; according to their angles. (b) Define a quadrilateral, a trapezoid, a parallelogram.

2. Prove that if the opposite sides of a quadrilateral are equal, the figure is a parallelogram.

3. Prove that the bisector of an angle of a triangle divides the opposite side into segments which are proportional to the sides containing the angle.

4. Prove that in the same circle or in equal circles equal chords are equally distant from the centre. State and prove the converse proposition.

5. If the bisectors of the equal angles of an isosceles triangle meet the equal sides in the points D and E, prove that DE is parallel to the base of the triangle.

6. Construct a square equivalent to a given triangle, explaining each step and proving the construction correct.

7. Prove that two regular polygons of the same number of sides are similar.

8. Prove that a circle may be circumscribed about any regular polygon.

D—SOLID GEOMETRY.

1. Prove that two straight lines which are perpendicular to the same plane are parallel.

2. Prove that the projections upon a plane of parallel straight lines are parallel.

3. Prove that the sum of any two face angles of a trihedral angle is greater than the third face angle.

4. Prove that if a pyramid is cut by a plane parallel to the base, the edges and the altitude are divided proportionally, and the section is a polygon similar to the base.

5. Prove that a straight line parallel to each of two intersecting planes is parallel to their intersection.

6. Prove that the sum of the angles of a spherical triangle is greater than two, and less than six, right angles.

7. Find the area of a spherical triangle whose angles are, 110°, 85°, and 125°, if the radius of the sphere be 10 inches.

E—PLANE TRIGONOMETRY.

1. Express the cosine of an angle between one and two right angles in terms of each of the other trigonometric functions.

2. Prove the formula for sin $(x + y)$, when x, y, and $x + y$ are positive acute angles.

3. Find all values of x between 0° and 360° which satisfy the equation $\sin^2 x - \cos x = \frac{1}{4}$.

4. Starting from the formula $a^2 = b^2 + c^2 - 2bc \cos A$, deduce the formula for $\sin \frac{1}{2} A$.

5. In a right triangle the hypotenuse and one leg are 50.13 and 24.62 feet respectively; find the remaining parts.

6. In a plane triangle two sides are 87.24 and 115.8 feet respectively, and the included angle is 83° 17′; find the third side.

7. State which of the following triangles are possible, and how many are possible in each case:

(a) $a = 15$, $b = 18$, $c = 41$
(b) $a = 40$, $b = 60$, $A = 30°$
(a) $a = 60$, $b = 40$, $A = 30°$

LATIN.

I. *Grammar.* Decline: (a) ager; (b) urbs; (c) mare; (d) vis; (e) fructus; (f) dies; (g) levis; (h) ego; (i) qui. Compare: (a) audax; (b) miser; (c) magnus. Give principal parts of: (a) tego; (b) utor; (c) eo. Give synopsis of active voice of audire. Conjugate the indic. and subj. moods of volo.

II. *Translate into Latin* either of the following passages: (a) When Caesar was informed of their approach, he hastened from Rome in order to intercept them. To the ambassadors, who had been sent to him, he replied that he did not think the Helvetians would march through the province without injury.

(b) I desire to be merciful, but I do condemn myself for inactivity and negligence. You ought to have been put to death long ago; but for a certain reason I have not yet ordered that to be done. I wish you to live as long as there is any one who dares to defend you.

III.—*Caesar.* Translate either of the following passages:
(a) I. 15. (b) II. 15.

IV.—*Vergil.* Translate either of the following passages:
(a) Aen. I. 50-65.
(b) Aen. III. 655-668.

V.—*Cicero.* Translate either of the following passages:
(a) Cat. II. 4. 74-82.
(b) Cat. III. 10. 314-321.

GREEK.

A. GRAMMAR.

1. Decline *ἡμέρα, ὁδός, βρίξ.*
2. " *ποιμήν, ἀνήρ, ναῦς.*
3. " *γυνή, οὖς, σῶμα.*
4. " *ὅδε ἥδε τόδε, οὗτος αὕτη τοῦτο.*
6. Inflect second aorist indicative, active and middle of *λείπω.*
7. Inflect imperfect and second aorist indicative active of *ἵστημι.*
8. Inflect present tense in full of *εἰμί* and *εἶμι*, all moods.
9. Synopsis of *ἵημι*
10. Principal parts of *αἱρέω, δίδωμι, ἔχω, ἔρχομω, ἐσθίω, ἵστημι, λαμβάνω, δράω, πάσχω, πίπτω, τίθημι, τρέχω, φαίνω, φέρω.*

B. PROSE COMPOSITION

1. Therefore, when night came, the Greeks went (partc.) and took the heights.
2. Since it is necessary for you to go with me, do not abandon me.
3. Ask Cyrus for a boat, that you may sail back.
4. I fear the enemy will attack us while we are crossing the river.
5. Whenever they had to ascend the mountain, the enemy attacked them.

6. After this, the Greeks decided not to proceed and fight at the same time, since there were many wounded.

7. He asked the god whether it was better for him to go or to remain at Athens.

8. If, however, they had retreated, they would all have perished.

TRANSLATE INTO ENGLISH.

1. Anabasis I., 9, 1-4.
2. Anabasis II., 4, 15-17.
3. Anabasis III., 5, 7-9.
4. Anabasis IV., 7, 23-25.

ELEMENTARY GERMAN.

I. Translate into idiomatic English any two of the three following selections.

1. Arnold wollte ihr etwas darauf erwiedern, aber lärmende Muſik, die von innen heraustönte, übertäubte ſeine Worte. Wunderliche Weiſen ſpielten auch die Muſikanten auf — er kannte keine einzige davon und wurde durch den Glanz der vielen Lichter im Anfang faſt wie geblendet. Gertrud führte ihn jedoch mitten in den Saal hinein, wo eine Menge junger Bauermädchen plaudernd zuſammenſtanden; dort erſt ließ ſie ihn los, ſich, bis der wirkliche Tanz begann, erſt ein wenig umzuſehen und mit den übrigen Burſchen bekannt zu werden. Arnold fühlte ſich im erſten Augenblicke zwiſchen den vielen fremden Menſchen nicht behaglich; auch die wunderliche Tracht und Sprache der Leute ſtieß ihn ab, und ſo lieb dieſe harten, ungewohnten Laute von Gertruds Lippen klangen, ſo rauh tönten ſie von anderen an ſein Ohr. Die junge Burſchen waren alle freundlich gegen ihn, und einer von ihnen kam auf ihn zu und nahm ihn bei der Hand.

— (Gerstäcker, *Germelshausen*)

2. Nachdem er mehrere Wochen gewandert war, ohne recht eigentlich zu wiſſen wohin, kam er eines Tages an einen wundervollen, großen Garten, der von einem hohen, vergoldeten Geländer umgeben war. Durch das Geländer hindurch ſah man uralte Bäume und niedriges Buſchwerk. Dazwiſchen ſchlängelte ſich ein Bach, über den eine Menge kleiner Brücken führten. Zahme Hirſche und Rehe ſpazierten auf den gelben Sandwegen umher, kamen

bis ans Gitter, steckten ihre Köpfe heraus, und fraßen ihm das Brod aus der Hand. In der Mitte des Gartens sah man aber aus den Bäumen ein stattliches Schloß hervorragen. Die silbernen Dächer blitzten in der Sonne, und von den Türmen wehten bunte Fahnen und Banner. Er ging das Geländer entlang; endlich fand er einen großen, offen stehenden Thorweg, von dem eine lange schattige Allee gerade auf das Schloß führte. Im Garten selbst war alles still; kein Mensch ließ sich sehen oder hören. Am Thor hing eine Tafel. —(Leander, *Traeumereien*)

3. Am folgenden Morgen wanderten Reinhard und Elisabeth jenseits des Sees bald durch die Holzung, bald auf dem vorspringenden Uferrande. Elisabeth hatte von Erich den Auftrag erhalten, während seiner und der Mutter Abwesenheit Reinhard mit den schönsten Aussichten der nächsten Umgegend, namentlich von der andern Uferseite auf den Hof selber, bekannt zu machen. Nun gingen sie von einem Punkt zum andern. Endlich wurde Elisabeth müde und setzte sich in den Schatten überhängender Zweige. Reinhard stand ihr gegenüber, an einen Baumstamm gelehnt; da hörte er tief im Walde den Kuckuck rufen und es schien ihm plötzlich als ob dies alles schon einmal eben so gewesen sei. Er sah sie lächelnd an. „Wollen wir Erdbeeren suchen?" fragte er. „Es ist keine Erdbeerenzeit," sagte sie. „Sie wird aber bald kommen." Elisabeth schüttelte schweigend den Kopf; dann stand sie auf, und beide setzten ihre Wanderung fort. —(Storm, *Immensee*)

II. Translate into German:

1. Germany, the great country where the Germans live, has beautiful rivers and rich cities.
2. Where is Worms and on what river does it lie?
3. Can you tell me who I am?
4. If I go home, I shall remain at home the whole week.
5. The high castle, which you see yonder, is the oldest on the Rhine.
6. Luther was taken to the Wartburg and began there the first great book in the German language.

III. a. Decline thruout the singular and the plural; ein großer Kasten, die hübsche Frau, ein Haus.

b. Compare;
gern, viel, gut, kalt.

c. Give, with the definite article, the nominative and genitive singular and the nominative plural of; Haus, Bruder, Hand, Knabe, Fräulein, Rose, Amerikaner.

d. What cases may be used after the following prepositions;

während, in, ohne, auf, zu, aus?

e. Explain what is meant by "inverted" and "transposed" order and give example of each.

f. Give the infinitive, third person singular of present and preterite indicative and preterite subjunctive, and past participle of;

geben, sagen, können, schlagen, essen.

g. Explain difference between ich würde lieben and ich wurde geliebt, and give first person plural in each case.

h. Name two cases in which the subjunctive mood must be employed.

ELEMENTARY FRENCH.

I. Translate into idiomatic English any two of the three following selections:

1. Plus proche de nous, sur notre droite, se découvraient des chaumières, quelques maisons et un autre clocher; c'était sans doute Lambusart. Mais beaucoup plus loin, au bout de cette grande plaine le terrain se renflait en collines, et ces collines brillaient de feux innombrables. On reconnaissait très bien trois gros villages, qui s'étendaient sur ces hauteurs, de gauche à droite, le plus proche de nous Saint-Amand, Ligny au milieu, et plus loin, à deux bonnes lieues au moins, Sombref. Cela se voyait mieux qu'en plein jour, à cause des feux de l'ennemi. L'armée des Prussiens se trouvait là dans les maisons, dans les champs. (Erckmann-Chatrian, *Waterloo.*)

2. La mémoire, c'est la lampe du soir de la vie; quand la nuit tombe autour de nous, quand les beaux soleils du printemps et de l'été se sont couchés derrière un horizon chargé de nuages, l'homme rallume en lui cette lampe nocturne de la mémoire. Il la porte d'une main tremblante tout autour des années, aujourd'hui sombres, qui composèrent son existence.

Il en promène pieusement la lueur sur tous les jours, sur tous les lieux, sur tous les objets qui furent les dates de ses félicités du coeur ou de l'ésprit dans le meilleur temps, et il se console de vivre encore par le bonheur d'avoir vécu.

—(Lamartine.)

3. Michel Strogoff appartenait au corps spécial des courriers du czar, et il avait rang d'officier parmi ces hommes d'élite. Ce qui se sentait particulièrement dans sa démarche, dans sa physionomie, dans toute sa personne, et ce que le czar reconnut sans peine, c'est qu'il était "un exécuteur d'ordres." Il possédait donc l'une des qualités les plus recommandables en Russie, suivant l'observation du célèbre romancier Tourguèneff, qualité qui conduit aux plus hautes positions de l'empire moscovite.

En vérité, si un homme pouvait voyager de Moscou à Irkoutsk, à travers une contrée envahie, surmonter les obstacles et braver les périls de toutes sortes, c'était, entre tous, Michel Strogoff.

—(Jules Verne, *Michel Strogoff.*)

II. Translate into French:

1. You will find at your house some books which we bought yesterday. Are they yours or his?
2. I have thought of it often, but I have never spoken of it.
3. Is your father at home, or has he gone to town?
4. I shall tell you the story, tho I am tired.
5. France is the country whose inhabitants speak French.
6. It was he who told me that.
7. I would write to you if I had the time.

III. a—Conjugate in full:

1. The present indicative of *vouloir* and *faire.*
2. The past definite (preterit) of *aimer* and *avoir.*
3. The future conditonal of *aller* and *finir.*
4. The present subjunctive of *pouvoir* and *vendre.*

b.—State rule for the position of the personal pronoun when used as object of a verb.

c—What parts of speech may *qui* be and what is its inflection in each case?

d—Explain the use of *en* and *y.*

e—Name six adjectives which ordinarily precede their noun.

f—Explain uses of *non, ne* and *pas.*

g—Give reason for the employment of tense and mood of *puissiez* and *soit* in the following: C'est le mieux que vous *puissiez* faire. Quoiqu'il *soit* brave guerrier, je ne le veux pas pour ami.

UNITED STATES HISTORY.

1. Give an account of the first permanent English settlement in America.
2. Give an account of King Phillip's War.
3. What important battles in American history have been fought at Quebec, and what was the result of each?
4. State some causes of the Revolutionary War.
5. How and when was the United States Constitution adopted, and how many States did the Union include?
6. Name the Presidents in order from the adoption of the Constitution until the Civil War.
7. What was the Embargo Act?
8. What was the Missouri Compromise?
9. Name five of the most important battles of the Civil War, and tell why each was important.
10. What Presidents have been elected by the House of Representatives? What Presidents have died in office?

PHYSICS.

(Omit One.)

1. State what is meant by density and give in full, including reasons for each step of the calculation, one method for determining density in each of the following cases:
   a. A regularly shaped solid.
   b. An irregularly shaped solid.
   c. A liquid.
2. Explain with the use of two concrete examples what is meant by the component of a force, and apply it to the following problem:
   Find the force parallel to plane necessary to draw a frictionless carriage weighing one thousand pounds up an inclined plane which has a rise of one foot for every ten feet of length of plane.
3. State and illustrate what is meant by work. What by energy. Find horse-power of engine necessary to pump one thousand cubic feet of water per hour to a height of five hundred feet.
4. a. If one hundred grams of water at 70° C. be mixed with

fifty grams of ice at 0° C., what will be the resultant temperature on Centigrade scale?

b. Give derivation of formulas connecting Fahrenheit and Centigrade scales and find above resultant temperature on Fahrenheit scale.

5. If a certain quantity of gas occupy thirty cubic centimeters at 20°C. and 730 mm. pressure, what will be its volume at 0° C. and 760 mm. pressure?
6. Given ten cells, each having an E. M. F. of one volt and a resistance of three ohms, from which a current is sent through an outside resistance of five ohms, draw diagrams and calculate current for each of the following arrangements:
    a. All cells in series.
    b. All cells in multiple (parallel).
    c. Cells in two series rows of five each, and these two rows in multiple.
7. Describe, with the aid of a diagram, the induction coil, with automatic break and condenser; explain its mode of action and usefulness.
8. Give in full a method for comparing the candle power of two lamps.
9. Tell, with the aid of diagrams, what is meant by the focal length, the conjugate foci, and their relation to focal length, of a convex lens. Describe a method for determining the focal length of such a lens.
10. Given a tuning fork of known frequency, show how it can be used for determining the velocity of sound in air by means of a resonating air column.
11. Tell what is meant by overtones or harmonics, and their effect on the tones of musical instruments. Show what overtones are possible in a closed, and what in an open organ-pipe.

CHEMISTRY.

1. What class of phenomena are included under physical and chemical changes? Give an example of illustrating both kinds of changes.
2. State the facts relative to the occurrence of oxygen and

the role played by it in the animal and vegetable kingdoms.

3. How can oxygen be prepared from its compounds? (This question may be answered by writing three equations, illustrative of the proper decompositions.)
4. Describe your laboratory method for the preparation of hydrogen. Sketch all apparatus used in this connection.
5. What are *chlorides?* How can chlorine and hydrochloric acid be obtained from common salt? Equations?
6. How could you prove atmospheric nitrogen an elementary substance? Name a few classes of nitrogen compounds and give examples of each.
7. Present proof that the diamond and wood charcoal are allotropic forms of carbon.
8. What are artificial fertilizers? From what compounds are they obtained and by what methods?
9. Outline at least one process for the manufacture of sodium carbonate.
10. Mention a few compounds of copper occuring in nature. How is the metal got from its ores?
11. What are the Noble metals and why are they so called?

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